

Bid No. 7424

All Prospective Vendors submitting a bid must be subscribed to the listing for the bid prior to the bid opening. If the Vendor is not listed on the Electronic Bidders List the bid package will not be considered or accepted. Only bids submitted to the Purchasing office located on the 6th floor of City Hall and time stamped before the deadline will be accepted.

Bids are to be submitted to the Purchasing office located on the 6th floor of City Hall, 3900 Main Street, Riverside, CA no later than September 22, 2016 before 2:00pm. The time and date are fixed and extensions will not be granted. Bids not received before the bid event time will not be accepted.

Reminder: Bid documents are to be submitted via hard copy ONLY. Line Items are to be submitted electronically via the bidding website. NO hard copy line items will be accepted.

The front of all submittals must be addressed and labeled as follows:

Bidder's Name & Address

City of Riverside; Purchasing Dept.
Attn: Art Torres (Bid No. 7424)
3900 Main Street
Riverside CA 92522

Bid No.: 7424
Due: 09/22/2016
Before: 2:00pm
Project: 2015/2016 CDBG Street and ADA Footpath
Improvements Project



REQUEST FOR BIDS

BID NO. 7424

DUE: Before 2:00 P.M.

DATE September 22, 2016

**2015/2016 CDBG Street and ADA Footpath Improvements
Project**

The City of Riverside Public Works Department has determined bidders shall hold a valid Class "A" or a Class "C-8" State of California Contractor's license in good standing.

**BID BOND OR CASHIERS CHECK
IS REQUIRED WITH THIS BID**

All Bid Line Items are to be submitted electronically via the City's bidding website, all other information and documents are due via hard copy prior to the bid event time. Bidding will close exactly at the time set forth in the Notice Inviting Bid. All Prospective Vendors submitting a bid must submit a signed and notarized original bid bond before Bid Event time.

All applicable forms required to be completed per the bid documents, shall be submitted as part of the bid response prior to bid event date and time. **Additional documents to be submitted may include but are not limited to a Non-Collusion Declaration, a Standards Acknowledgment and Subcontractors List, including Subcontractor name, license, description, and dollar value of work to be performed, shall be submitted via the supplied forms. Pricing for individual line items may only be submitted electronically, hard copies will be ignored. Subcontractor information must be accepted as a viable bid.**

BID BOND NOT RECEIVED PRIOR TO THE HOUR INDICATED WILL BE REJECTED.

Proposal Bonds not received prior to the time and the date set forth in the Notice Inviting Bids, shall be declared late. The bidder shall have sole responsibility for its timely submittal.

Proposal Guaranty in the form of a Cashier's check or Certified check must be submitted to the Purchasing Services Manager, at 3900 Main Street, Riverside, CA 92522, prior to the hour and the date stated above.

BID NO. 7424

CITY OF RIVERSIDE NOTICE INVITING BIDS

2015/2016 CDBG Street and ADA Footpath Improvements Project

The City of Riverside Public Works Department has determined bidders shall hold a valid Class "A" or a Class "C-8" State of California Contractor's license in good standing.

Bid due date: September 22, 2016, Before 2:00 P.M.

Place: Submit Bid Bond along with all other required documents to the Purchasing Division at: 3900 Main Street, Riverside, CA 92522. Proposal Guaranty in the form of a Cashier's check or Certified check must be submitted to the Purchasing Services Manager, at 3900 Main Street, Riverside, CA 92522, prior to the hour and the date stated above.

Vendors must subscribe at the following website in order to download plans, specifications, and be placed on the electronic bidders' list as well as to receive addendums and notifications when issued.

<http://www.riversideca.gov/bids>

All bidders and sub-bidders will be required to comply fully with the following: 1) City of Riverside Resolution No. 13346, and subsequent amendments thereto specifying the current prevailing rate of per diem wages for each craft, classification or type of workman, which schedules are on file in the State of California web site address www.dir.ca.gov/DLSR/PWD 2) Successful bidder will obtain City of Riverside Business Tax Certificate, if they do not already hold one.

Pursuant to Section 22300 of the Public Contract Code of the State of California, the contractor will be permitted to substitute those securities set forth in said sections for any monies withheld to ensure performance of the contract.

A proposal guarantee in the form of a Bid Bond in the amount of 10% of the total bid must be submitted prior to the hour and the date stated above. Proposal Guarantee in the form of a Cashier's check or Certified check must be submitted to the Purchasing Services Manager, at 3900 Main Street, Riverside, CA 92522, prior to the hour and the date stated above.

Bid prices shall be firm for 90 days from date of proposal opening to permit staff evaluation and City Council award. Upon award, prices quoted will be in effect for the term of the contract.

The City Council reserves the right to waive any irregularities or informalities and further reserves the right to reject any or all bids.

ART TORRES, C.P.M.
Purchasing Services Manager



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CITY OF RIVERSIDE
FINANCE/PURCHASING DIVISION
3900 Main Street, Riverside, CA 92522

INSTRUCTIONS AND CONDITIONS

IMPORTANT

ALL BID ITEMS MUST BE SUBMITTED ELECTRONICALLY. BID PROPOSAL GUARANTY AND SUPPORTING DOCUMENTS MUST BE SUBMITTED IN HARD COPY TO THE PURCHASING DIVISION. BID PROPOSAL GUARANTY AND SUPPORTING DOCUMENTS NOT SUBMITTED AND TIME STAMPED BEFORE THE HOUR INDICATED WILL BE REJECTED. IN THE EVENT THE BID SECURITY IS IN THE FORM OF A CASHIER'S CHECK, SAID CHECK MUST BE DELIVERED TO PURCHASING SERVICES MANAGER AT 3900 MAIN STREET, RIVERSIDE, CA 92522 BEFORE THE DEADLINE TO SUBMIT THE BID.

WE ARE PLEASED TO ISSUE THE ENCLOSED BID SPECIFICATIONS FOR YOUR CONSIDERATION

1. Bids will be rejected unless prices are submitted via the bidding website and all items are accounted for.
2. The City of Riverside, Purchasing Division, will not honor any explanation or change in the bid documents unless a written addendum has been issued.
3. All bids must identify bidder's firm name and be submitted by a responsible officer or employee.
4. The City Council reserves the right to reject any and all proposals and to waive any informalities related thereto.
5. It is the intention of the City of Riverside to evaluate and make recommendation for award as indicated; however, the City does reserve the right to increase or decrease quantities or to remove items before award to remain within the limitations of the availability of approved funds. The apparent low Bidder will be notified prior to recommendation for award if such adjustments are deemed necessary.
6. Our public bid openings occur online at www.rivesideca.gov/bids and results are available instantly.
7. Prices quoted by the Bidder shall be exclusive of Federal Excise taxes pursuant to exemption of political subdivisions of a State by Federal Law.
8. Prices quoted by the Bidder shall mean total cost to the City, F.O.B. delivered to Riverside.

ART TORRES, C.P.M.
Purchasing Services Manager

NOTICE INVITING BIDS
(*Bid No. 7424*)

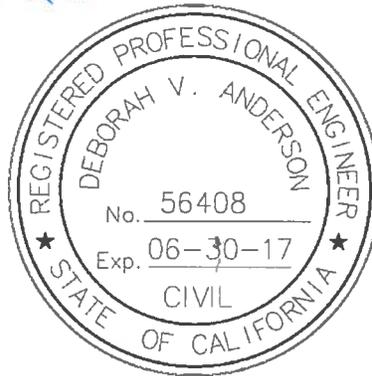
SPECIAL PROVISIONS
STANDARD DRAWINGS
AND
PROPOSAL FORMS

To Accompany Plans **M-485, R-4356, R-4358, R-4359,**
R-4360, R-4371, R4375, X-552

for

***2015/2016 CDBG STREET AND ADA FOOTPATH
IMPROVEMENTS PROJECT***

Deborah Anderson



Issued By

PUBLIC WORKS DEPARTMENT

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SPECIAL PROVISIONS

INTRODUCTION: The format of these Special Provisions follows that of the 2012 Edition of the "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" which is, by reference, included within the Contract Documents of this project. (See Section 2-5.1.1 herein.) These Special Provisions supplement, modify and take precedence over the Standard Specifications. The Standard Specifications are hereby amended and supplemented as follows:

PART 1 GENERAL PROVISIONS

SECTION 1 TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE AND SYMBOLS

1-2 TERMS AND DEFINITIONS

| | |
|-----------------------------|--|
| Agency/City or State | The City of Riverside. |
| Base Course | The layer(s) of pavement placed between the surface course and the subgrade. |
| Board | The City Council of the City of Riverside. |
| Director | Director of Public Works for the City of Riverside. |
| Engineer | The City Engineer or his designee |
| Inspector | The representative of the Engineer who is assigned to inspect conformance of the work in accordance with Plans and Specifications. |
| Overlay | A supplemental surface course placed on an existing pavement to improve its surface conformation or to increase its strength. |
| Private Engineer | (If applicable) The engineer who has prepared and has signed the Plans. |
| Right-of-Way | Includes City of Riverside Public Rights-of-Way and City of Riverside Public Easements. |
| Sewer Lateral | House Connection Sewer. |

| | |
|-----------------------|--|
| Standard Plans | City of Riverside Standard Drawings for Construction |
| Surface Course | The top layer of pavement designed to provide structural value and/or a surface resistant to traffic abrasion. |
| Traveled Way | That portion of the roadway reserved for the movement of vehicles for the general public, exclusive of shoulders and auxiliary lanes. Where traffic has been diverted or restricted to certain lanes, with the approval of the Engineer, these diversions or restricted lanes become the traveled way. |

1-3 ABBREVIATIONS

| | |
|--------------------|------------------------------------|
| ARHM-GG | Asphalt Rubber Hot Mix- Gap Graded |
| DGAC | Dense Graded Asphalt Concrete |
| R & R | Remove and Replace |
| Std. Specs. | Standard Specifications |

The abbreviations shown on Standard Drawing No. 2 may also apply.

1-5 SYMBOLS

The symbols shown on Standard Drawing No. 1 may also apply.

SECTION 2 SCOPE AND CONTROL OF THE WORK

2-1 AWARD AND EXECUTION OF CONTRACT

2-1.1 Scope of Project. The project entails street maintenance improvements at various locations throughout the city. The proposed work includes construction of concrete sidewalks, curb and gutter, wheelchair ramps, and rehabilitation of the existing asphalt pavement as shown on the contract plans. Additionally, the project will construct new ADA wheelchair ramps at various locations and a new pedestrian “Hawk” signal on Magnolia Avenue at Farnham Place.

2-1.2 Examination of Site of Work, Proposal Forms, Plans and Specifications. The bidder is required to carefully examine the site of work, Proposal Forms, Plans and Specifications for the work contemplated. The submission of a proposal shall be considered conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality and quantities of work to be performed and materials to be furnished, and as to the requirements of all the Contract Documents.

2-1.2.1 Contractor Customer Service Standards. The Contractor shall at all times represent the City in a professional, friendly, efficient and cost-effective manner, and will be required to comply

with the requirements of the enclosed City of Riverside Contractor Service Standards Acknowledgment, which is hereby made a part of these Special Provisions.

2-1.3 Addenda. Unless otherwise specified, any addenda issued during the time of bidding, must be acknowledged by signing each addendum, which will be made part of the contract. Failure to acknowledge any addendum, will automatically deem your bid as “Non-responsive”. Addenda notifications will be provided to those subscribed, to the Electronic Bidder’s List, via email.

2-1.4 Proposal Information and Submittal. All prospective bidders submitting a bid package must be subscribed to the Electronic Bidder’s List for that bid. If the bidder is not listed on the Electronic Bidder’s List by subscribing at www.riversideca.gov/bids then the bid package will be declared non-responsive and given no further consideration. Additionally, the bid package must be submitted using the same company name as used to subscribe to the Bid on the Electronic Bidder’s List.

All **bid line items** must be submitted electronically through the bidding website, no hard copy bid line items will be accepted. Failure to submit bid line items electronically will immediately cause a bid to be deemed “Non-responsive”. Additional information and required bid documents must be submitted via hard copy only.

2-1.4.1 Proposal Forms and Submittal. Subcontractor information and any necessary additional information must be submitted on the forms provided. All required documents such as the Non-Collusion Declaration and the Standards Acknowledgment and any bid security must be supplied as signed originals. Please note that all bid documents, **except for the bid line items**, are accepted in hard copy only. Bid line items must be submitted electronically through the bidding website prior to the bid due date/time. Additional bid documents may be submitted by mail or in person but must be time stamped by the Purchasing office before the due date/time. **NO HARD COPY LINE ITEMS WILL BE ACCEPTED.** All packages must be addressed as follows:

Bidder’s Name & Address

City of Riverside Purchasing Dept.
Attn: Art Torres (**Bid No. 7424**)
3900 Main Street
Riverside CA 92522

Bid No.: **7424**

Due: **September 22, 2016**

Before: **2:00 P.M.**

Project: **2015/2016 CDBG Street and ADA Footpath Improvements Project**

Proposals not received and time stamped at the Purchasing Office prior to the hour and the date set forth in the Notice Inviting Bids shall be declared late and non-responsive. The bidder shall have sole responsibility for its timely delivery.

Interpretations/communications

Any questions, interpretations, or clarifications, either administrative or technical, about this Bid must be requested by electronic mail and delivered to **Dale Chapman, Project Manager, at**

dchapman@riversideca.gov. All written questions will be answered by electronic mail and will be forwarded to Proposers identified as “Prospective Bidders” on the City’s website. The final day to submit questions shall be **7 calendar days** prior to the bid opening date.

To ensure fairness and avoid misunderstandings, all communications must be in written format and addressed only to the individual set forth above. Any communications, whether written or verbal, with any City Councilmember or City staff other than the individual indicated above, prior to award of a contract by City Council, is strictly prohibited and the Proposer shall be disqualified from consideration. Any verbal communications will not be considered or responded to. Written communications should be submitted via e-mail to the address provided above. All questions received by the due date will be logged and reviewed and if required, a response will be provided via an addendum to the Bid that will be posted on the City’s website. Any and all such interpretations and any supplemental instructions will be in the form of electronic addenda e-mailed to prospective Bidders appearing on the Bidder’s List not later than three days prior to the date fixed for the opening of bids. Failure of any Bidder to receive any such addendum or interpretation shall not relieve such Bidder from any obligation under his or her Bid as submitted. All addenda so issued shall become part of the Contract Documents.

2-1.4.2 California Labor Code. Contractor is aware of and stipulates that Contractor will also comply with the following sections of the California Labor Code:

- a. Section 1775 prescribing sanctions for failure to pay prevailing wage rates;
- b. Section 1776 requiring the making, keeping and disclosing of detailed payroll records and prescribing sanctions for failure to do so;
- c. Section 1777.5 prescribing the terms and conditions for employing registered apprentices;
- d. Section 1810 providing that eight hours of labor shall be a day’s work; and
- e. Section 1813 prescribing sanctions for violations of the provisions concerning eight-hour work days and forty-hour work weeks.
- f. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

Registration can be accomplished through the DIR website by using this link:

<http://www.dir.ca.gov/Public-Works/PublicWorks.html>

2-1.5 Proposal Guaranty. Prior to the proposal submission deadline, bidders must submit an original bid bond, executed by a corporate surety admitted to engage in such business in the State of California, with an A:7 rating, for an amount equal to or at least ten percent of the amount of it’s proposal. No proposal shall be considered unless such proposal guaranty is received by the proposal submission deadline. Proposals submitted without a proposal guarantee shall be declared non-responsive and will not be further considered. The bidder shall have sole responsibility for the timely delivery of its proposal guarantee. If a bid bond will not be submitted, the City will accept a cashier's or certified check made payable to the City of Riverside—said check must be delivered to the Purchasing Services

Manager (6th floor) at 3900 Main Street, Riverside CA 92522 prior to the submission deadline. Late checks will not be accepted.

2-1.6 Withdrawal of Proposals. Any proposal may be withdrawn prior to the hour and date set forth in the Notice Inviting Bids. The timely withdrawal of a proposal shall not prejudice the right of a bidder to file a revised proposal.

2-1.7 Disqualification of Bidders. More than one proposal from an individual, a firm or partnership, a corporation or an association under the same or different name will not be considered.

If there is a reason for believing that collusion exists among the bidders, none of the participants in such collusion will be considered in awarding the Contract. In order to comply with Public Contract Code Section 7106 the Contractor shall certify to non-collusion when submitting the bid. The proposal provides this declaration, which must be completed and signed.

Proposals in which the prices are obviously unbalanced may be rejected. If the experience or financial background of the Contractor is inadequate or past performance has been unsatisfactory the proposal may be rejected.

2-1.7.1 Contractor's License. The work requires an "A" or a "C-8" License.

The City's standard requirement that bidders must be properly licensed to perform the work of the project at the time their bid proposals are submitted is suspended for this federally-funded project by the provisions of Section 20103.5 of the California Public Contract Code, which states:

In all Contracts subject to this part where federal funds are involved, no bid submitted shall be invalidated by the failure of the bidder to be licensed in accordance with the laws of this state. However, at the time the Contract is awarded, the Contractor shall be properly licensed in accordance with the laws of this state. The first payment for work or material under any Contract shall not be made unless and until the Registrar of Contractors verifies to the agency that the records of the Contractors' State License Board indicate that the Contractor was properly licensed at the time the Contract was awarded. Any bidder or Contractor not so licensed shall be subject to all legal penalties imposed by law, including, but not limited to, any appropriate disciplinary action by the Contractors' State License Board. The agency shall include a statement to that effect in the standard form of prequalification questionnaire and financial statement. Failure of the bidder to obtain proper and adequate licensing for an award of a Contract shall constitute a failure to execute the Contract and shall result in the forfeiture of the security of the bidder.

2-1.8 Rejection of Proposals. Proposals may be rejected if they show any alterations of form, additions not called for, conditional or alternative bids uncalled for, incomplete proposals, erasures, or irregularities of any kind; however, the City reserves the right to waive irregularities. The City also reserves the right to reject all proposals and shall not be liable for any expenses or costs incurred by bidders in preparing their proposals.

2-1.9 Award of Contract. The Contract, if awarded, will be to the lowest responsive and responsible bidder whose proposal complies with all the requirements prescribed. Such award, if made, will be within **ninety (90)** days after the opening of the proposals.

Prior to the award of the Contract, if requested, the Contractor shall submit to the City a financial statement and resume of previous work of a similar nature.

The Contract, if awarded, will be awarded to the Lowest Responsible Bidder. All Bids will be compared to each other and to the Engineer's Estimate. The award of the Contract will be made by City Council at a scheduled meeting.

2-1.10 Execution of Contract Agreement. The Contract Agreement (a sample of which is attached to these Special Provisions) shall be signed by the successful bidder and returned, together with the Contract Bonds and insurance, within fifteen (15) calendar days from the date the City mails, or by other means delivers, the Contract Documents to the successful bidder. No Contract shall be binding upon the City until the Documents are fully executed by the Contractor and the City.

Failure to execute and return the Contract Agreement and acceptable bonds and insurance as provided herein within the above-specified time limit may be just cause for the City to rescind the award and forfeit the proposal guaranty.

2-1.11 Return of Proposal Guaranties. Within ten (10) days after the award of the Contract, the City Clerk will return all the proposal guaranties accompanying the proposals which are not to be further considered in making the award. All other proposal guaranties will be held until the Contract Documents have been fully executed, after which all proposal guaranties, except those forfeited, will be returned to the respective bidders.

2-1.12 Bid Protest Procedures. Protestant may file a written protest with the City's Purchasing Services Manager no more than five calendar days following the posting of bid results on the City's website. The written protest must set forth, in detail, all grounds for the protest, including without limitation all facts, supporting documentation, legal authorities and arguments in support of the grounds for the protest. All factual contentions must be supported by competent, admissible and credible evidence. Any matters not set forth in the written protest shall be deemed waived. Any protest not conforming to this procedure shall be rejected as invalid.

The Purchasing Services Manager shall review the merits and timeliness of the protest and issue a written decision to the Protestant within 7 calendar days of receipt of the protest. The decision of the Purchasing Services Manager may be appealed to the CFO.

The Protestant may appeal the decision of the Purchasing Services Manager to the CFO by filing a letter of appeal within 10 calendar days of the date of the Purchasing Services Manager's decision. The letter of appeal should be addressed to the CFO and shall set forth, in detail, all grounds for the appeal, including without limitation all facts, supporting documentation, legal authorities and arguments in support of the grounds for the appeal. All factual contentions must be supported by competent, admissible and credible evidence. Any matters not set forth in the letter of appeal shall be deemed waived. Any letter of appeal not conforming to this procedure shall be rejected as invalid.

The CFO shall review the merits and timeliness of the letter of appeal and issue a written decision to the Protestant within 14 calendar days of receipt of the letter of appeal. The decision of the CFO is final. However, this decision is reviewable under California Code of Civil Procedure Section 1094.5 et seq. The time in which judicial review of the decision must be sought shall be governed by California Code of Civil Procedure Section 1094.6 or as such section may be amended from time to time.

The Protestant may appeal the decision of the CFO to the appropriate federal agency in accordance with its established appeal procedures when the subject project is federally funded.

2-2 ASSIGNMENT

2-2.1 Contractor Indebtedness. Indebtedness incurred for any cause in connection with this work must be paid by the Contractor and the City is hereby relieved at all times from any indebtedness or claim other than payments under terms of the Contract. The Contractor will indemnify and hold harmless the City and its officers and employees from any loss, demand, damages, claims or actions arising from or in connection with said indebtedness.

2-3 SUBCONTRACTS

2-3.2 Self Performance.

The following Bid Items have been designated as "Specialty Items":

1. Traffic Signal related bid items
2. Signing/Striping related bid items

2-3.4 Prompt Payment to Contractors. The prime Contractor shall pay each subcontractor under the prime contract for satisfactory performance of its contract no later than Seven (7) days from the receipt of each payment the prime contractor receives from the City. The prime contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the City.

2-4 CONTRACT BONDS

Performance and Payment Bonds are required. The amount of each Bond shall be 100% of the Contract Price. See Section 2-4 of the Standard Specifications for other details.

Listing of bonding companies in U.S. Department of Treasury Circular 570 is not required, but the corporate surety must be authorized to issue the bonds in the State of California with a policy holder's rating of A or higher and a Financial Class VII or larger. For information to bidders, attached to these Special Provisions are forms for Performance Bond and Payment Bond. These forms, in lieu of bonding company forms, must be used. The forms will be delivered to the Contractor with the Contract Agreement.

Each bond which is subscribed by an out-of-state bonding company shall contain the name, address and telephone number of an agent located in the State of California who is authorized to act for the bonding company.

2-5 PLANS AND SPECIFICATIONS

2-5.1.1 Standard Specifications. The work embraced herein shall be done in accordance with the provisions of the STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 Edition, written by Public Works Standards, Inc., insofar as the same may apply, which specifications are hereinafter referred to as the Standard Specifications, and as modified herein. Said Standard Specifications shall not apply to Section 314 (in Part 3), and Part 7 of these Special Provisions. The work performed under Section 314 (in Part 3), and Part 7 of these Special Provisions shall be done in accordance with the State Standard Specifications and the State Standard Plans.

Where reference is made to the “Standard Plans”, the City of Riverside “Standard Drawings for Construction” shall apply.

Where reference is made to the “State Standard Specifications”, the 2006 Edition of the State of California, Department of Transportation STANDARD SPECIFICATIONS shall apply. Where reference is made to the “State Standard Plans”, the State of California, Department of Transportation STANDARD PLANS dated 2006 shall apply.

2-5.3.2 Working Drawings. Working drawings, when required, need not be reproducible unless specified herein. A minimum of four copies shall be submitted for approval by the Engineer.

2-5.3.3 Shop Drawings. Shop drawings, when required, need not be reproducible unless specified herein. A minimum of four copies shall be submitted for approval by the Engineer.

2-8.1 Rights of Entry. Rights of Entry have been obtained and the plats are included in Part 10 of these Special Provisions.

2-9 SURVEYING

2-9.2 Survey Service. The expense to the Contractor for the replacement of survey stakes shall be at the rate of \$200 per hour including travel time.

The minimum notice to be given by the Contractor to the Engineer for scheduling construction staking is 4 working days. If more time is necessary, it will be determined during the preconstruction conference.

All grade sheets will be issued by the Engineer at Engineer's office at 3900 Main Street, Riverside, California.

The Contractor shall be responsible for preserving all survey monumentation during the construction phase. If any monumentation will be disturbed or destroyed due to the construction, it will be the Contractor's responsibility to notify the Engineer two working days in advance so that the monument(s) may be tied out and their original positions reestablished by the City Surveyor to perpetuate the controlling monumentation.

No survey work will be provided for the removal and replacement of any concrete improvements with the exception of when the grade of curb and gutter is less than 0.4% or when the curb and gutter lengths are fifty (50) feet or greater. The Engineer shall determine the need for construction stakes to obtain the grade.

2-11 INSPECTION

2-11.1 Inspection Scheduling. Inspection will be provided based on regular eight-hour working days, Monday through Friday, excluding City holidays, generally from 7:00 AM to 3:30 PM (including 30 minutes for lunch). When the Contractor's operations or public safety requires inspection beyond the regular eight-hour working days, the cost of the additional inspection shall be borne by the Contractor and shall be deducted from any payments due the Contractor.

If and when the Contractor wishes to perform any work which would require inspection beyond the regular eight-hour working days, the Contractor shall submit a written request to the Engineer no less than two working days before the planned start of such work.

2-11.2 City Holidays. City holidays will be observed on the following days and no work shall be completed by the Contractor unless prior written approval from the City Engineer:

| | |
|------------------------------------|----------------------------------|
| January 1st | New Year's Day |
| Third Monday in January | Martin Luther King Jr's Birthday |
| Third Monday in February | President's Day |
| Last Monday In May | Memorial Day |
| July 4th | Independence Day |
| First Monday in September | Labor Day |
| Second Monday in October | Columbus Day |
| November 11 | Veteran's Day |
| Fourth Thursday in November | Thanksgiving Day |
| The day following Thanksgiving Day | |
| December 25 | Christmas Day |

If a holiday falls on a Saturday, it will be observed on the preceding Friday. If a holiday falls on a Sunday, it will be observed on the following Monday.

The Contractor shall provide Riverside Public Utilities Inspectors a minimum of two working days of notification for inspections.

SECTION 3

CHANGES IN WORK

3-2 CHANGES INITIATED BY THE AGENCY

3-2.2 Contract Unit Prices.

Sections 3-2.2.2 and 3-2.2.3 of the Standard Specifications are hereby revised only for the bid Items listed below:

- a) **Additional Removal of Existing Deteriorated AC**
- b) **Asphalt Pavement (DGAC) – For Additional Removal Areas**

3-2.2.1.1 General. Should the actual quantity of an item of work covered by a Contract Unit Price and constructed in conformance with the Plans and Specifications, vary from the Bid quantity, no adjustment to the payment will be made per 3-2.2.2 or 3-2.2.3 of the Standard Specifications. The bid item will be utilized on an as needed basis and at the discretion of Engineer.

3-3 EXTRA WORK

3-3.2 Payment.

3-3.2.1 General. When the price for the extra work cannot be agreed upon, the City will pay for the extra work as provided in Subsections 3-3.2.2 and 3-3.2.3 as amended herein. The labor, materials and equipment used in the performance of such work shall be subject to the approval of the Engineer.

3-3.2.2 Basis for Establishing Costs.

(a) **Labor.** The Contractor will be paid the cost of labor for the workers (including foremen when authorized by the Engineer) used in the actual and direct performance of the work. The cost of labor, whether the employer is the Contractor, subcontractor, or other forces, will be based upon the actual paid wages plus a labor surcharge as specified herein.

Labor Surcharge - To the actual wages, as defined above, will be added a labor surcharge as set forth in the California Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates" which is in effect on the date the work is performed. At the printing of these Special Provisions, the labor surcharge is **12%** for straight time and **12%** for overtime work.

(b) Materials. Not amended.

(c) Tool and Equipment Rental. The Contractor will be paid for the use of equipment at the rental rates listed for such equipment in the Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates" which is in effect on the date upon which the work is performed. These rental rates shall include the cost of fuel, oil, lubrication, supplies, small tools,

necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals. Move in and out or minimum charges, other than the hourly rate, shall not apply to equipment available from the work force already on the job site.

When owner-operated equipment is used to perform extra work to be paid for on a force account basis, the Contractor will be paid for the equipment and operator, as follows:

Payment for the equipment will be made at the rental rates listed for such equipment in the Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates" which is in effect on the date upon which the work is performed.

Payment for the cost of labor will be made at the rates paid by the Contractor to other workers operating similar equipment already on the project or, in the absence of such other workers, at the rates for such labor established by collective bargaining agreements for the type of workers and location of the work, whether or not the owner-operator is actually covered by such an agreement.

Copies of the "Labor Surcharge and Equipment Rental Rates" publication are available online at:

<http://www.dot.ca.gov/hq/construc/equipmnt.html>

(d) Other Items. Not amended.

(e) Invoices. Submission of an invoice under this sub-section (e) does not entitle contractor to any additional compensation beyond that set forth in the Labor Surcharge and Equipment Rental Rates in effect on the date the work is performed.

3-3.2.3 Markup.

(a) Work by Contractor. A markup of 15 percent shall be added to the Contractor's costs for labor, materials, and equipment rentals and shall constitute the markup for all overhead and profits. In addition to this markup, 1 percent shall be added to the Contractor's costs as compensation for bonding.

(b) Work by Subcontractor. When any of the extra work is performed by a Subcontractor, the markup established in 3-3.2.3(a) of these Special Provisions shall be applied to the Subcontractor's costs as determined under 3-3.2.2. An additional 3 percent markup shall be added to the final Subcontractor's cost, which constitutes reimbursement for all the Contractor's administrative costs, including overhead.

3-3.3.1 Daily Reports for Extra Work. The daily report specified in Section 3-3.3 of the Standard Specifications shall include only that work which is included in the Contractor's claim for extra work.

3-4 CHANGED CONDITIONS. Section 7104 of the Public Contract Code requires the following provisions for any project, which involves digging trenches or other excavations that extend deeper than four feet below the surface. These following provisions are hereby extended to apply to all

public works projects:

a) The Contractor shall promptly, and before the following conditions are disturbed, notify the Engineer, in writing, of any:

1. Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, and that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of law;

2. Subsurface or latent physical conditions at the site differing from those indicated by information about the site made available to bidders prior to the deadline for submitting bids; and

3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

b) In response to the Contractor's written notice, the Engineer shall promptly investigate the conditions, and if the Engineer finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the work shall issue a change order under the procedures described in the Contract.

c) In the event that a dispute arises between the Engineer and the Contractor, whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided either by Contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

3-5 DISPUTED WORK

In any case where the Contractor believes extra compensation is due the Contractor for work or materials not clearly covered in the Contract, or not ordered by the Director as "extra work", the Contractor shall notify the Director in writing of the Contractor's intention to make claim for such extra compensation before the Contractor begins the work on which Contractor bases the claim. If such notification is not given, or the Director is not afforded proper facilities by the Contractor for keeping strict account of actual cost, then the Contractor shall be deemed to have waived the claims for such extra compensation. Such notice by the Contractor, and the fact that the Director has kept account of the cost as aforesaid, shall not in any way be construed as proving the validity of the claim. The validity of the claim must be determined by the Director. If the Director determines that the claim is well founded, it shall be allowed and paid for as "extra work"; if the Director determines that the claim is not well founded, it shall be disallowed and not paid.

3-6 UNAUTHORIZED WORK

Work done beyond the lines and grades shown on the Plans, work done in the absence or without the knowledge of the Director or any alleged extra work done without the City's written authorization, will be considered as unauthorized and at the expense of the Contractor and will not be measured or paid for by the City. The Contractor may be required to remove such unauthorized work at no expense to the City, as determined by the Director.

3-7 NOTICE OF POTENTIAL CLAIM

The Contractor shall not be entitled to the payment of any additional compensation or extension of time unless the Contractor has given the Engineer a written Notice of Potential Claim as required herein. Compliance with this Section 3-7 shall not be a prerequisite as to matters within the scope of the protest provisions in Section 6-7, "Time of Completion," or the notice provisions in Section 3-4, "Changed Conditions," nor to any claim which is based on differences in measurements or errors of computation as to Contract quantities.

Contractor shall submit the written Notice of Potential Claim to the Engineer prior to the time that the Contractor performs the work giving rise to the potential claim for additional compensation and/or time.

Contractor's written Notice of Potential Claim shall be submitted on the appropriate form furnished by the City, and shall be certified with reference to the California False Claims Act, Government Code Sections 12650 - 12655. A copy of the Notice of Potential Claim form is contained in these Special Provisions. The notice shall set forth the justification for the additional compensation, as well as a breakdown of the estimated costs. Within 15 calendar days of completing the affected work, the Contractor shall submit substantiation of the Contractor's actual costs. Failure to do so shall be sufficient cause for denial of any claim subsequently filed on the basis of the Notice of Potential Claim.

The intention of this section is to bring differences between the parties to the attention of the Engineer as early as possible, in order to expedite resolution. Contractor waives its right to any additional compensation and/or extension of time for any claim not submitted in accordance with this section.

Upon request by City, Contractor shall make available for inspection and copying, any and all documents or records in Contractor's possession which pertain to the potential claim.

This provision does not relieve Contractor of the requirement to present a statutory claim in accordance with California Government Code sections 905 and 910, and Public Contract Code Section 20104.

SECTION 4 CONTROL OF MATERIALS

4-1 MATERIALS AND WORKMANSHIP

4-1.1 General.

4-1.1.1 Suppliers Sources. The Contractor shall notify the Engineer in writing within 5 days after City approval of the Contract of the proposed suppliers and sources for material to be incorporated into the project.

4-1.4.1 Materials and Conditions to be tested. The Contractor shall be responsible for controlling the quality of the material entering the work and of the work performed, and shall perform testing as necessary to ensure control. The test methods used for quality control testing shall be as determined by the Contractor. The results of the testing shall be made available to the Engineer upon request. These tests are for the Contractor's use in controlling the work and will not be accepted for use as acceptance tests.

Full compensation for performing quality control tests and making the results available to the Engineer shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

The City may perform quality assurance testing at the discretion of the Engineer. The Contractor shall provide reasonable access and time to the Engineer to perform quality assurance testing. The cost of retesting any portion of the work or materials, which have failed the initial quality assurance test taken by the City, shall be borne by the Contractor.

4-1.6 Trade Names or Equal. The Contractor may offer any material, process, or equipment considered to be equivalent to that indicated in the Contract Documents. The substantiation of offers shall be submitted prior to award of Contract.

After bid opening, Bidders being further considered shall submit all substitution proposals fully documented for consideration by the Engineer within five (5) working days after bid opening. Submittal of substitution proposals more than five (5) working days after bid opening may be grounds for rejection of the proposal on the basis of late submission, at the discretion of the Engineer. Bidders being further considered shall also submit catalog cuts and specification information on the materials and/or equipment as specified for the Contract. Documentation shall be sufficient to allow for a thorough comparative check of the proposed substitution versus the specified item. It shall be the Bidder's responsibility to show all products proposed for substitution are equal to the items specified.

Proposed substitutions will not be evaluated until after award of Contract. Award of the Contract and Bidders' bids are to be based on items as specified. Within thirty-five (35) calendar days following contract award, City will evaluate the proposed substitutions and shall advise Contractor whether such substitution is approved or not.

SECTION 5 UTILITIES

5-1 LOCATION

5-1.1 Utility Marking/Coordination. The Public Works Department will not issue a construction permit as referenced in Section 7-5.1 of these Special Provisions for any work involving excavation for underground facilities unless the applicant has been provided an inquiry identification number by Underground Service Alert of Southern California.

The Contractor shall tie-out the location of any utility facility with a minimum of two reference points prior to paving and shall mark its location on the street with paint after paving. Payment for tie-out work shall be included in the unit prices for paving.

SECTION 6 PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK

6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK

6-1.1.1 Construction Schedule. The Contractor shall submit a construction schedule to the Engineer at the preconstruction conference. The construction schedule shall indicate the following:

- a. Proposed schedule for potholing near/at the proposed traffic signal foundations. The working day(s) for potholing shall not count toward the Contract Time as indicated on Section 6-7.1.1 and is required prior to starting construction.
- b. Proposed schedule to commence and complete the project. The schedule shall take into account holidays and Specified Contract Time as indicated in Section 6-7.1.1.

During the construction the Contractor shall review and update the schedule weekly. Rescheduling any work under this Contract shall not be permitted to allow the Contractor the ability to accommodate another contract, even with the City.

The "Notice to Proceed" shall be as follows:

The Contractor's construction schedule shall be submitted at the Pre-Construction Conference. Upon review of the Contractor's construction schedule by the Engineer, a "Notice to Proceed" will be issued for a date to be discussed at the Pre-Construction Conference.

Failure to submit a schedule as specified shall be considered as noncompliance with the terms of the Contract and is subject to the provisions of Section 6-4, "Default by Contractor," of the Standard Specifications.

6-1.2.1 Commencement of Work.

The contract time shall commence on the date specified in the Notice to Proceed.

6-3 SUSPENSION OF THE WORK

6-3.3 Stage III Smog Episode. No work shall be done on a day for which a Stage III smog episode is forecast as defined by the Air Quality Management District (AQMD). The Contractor will not be entitled to any delay damages for such a suspension, but an automatic time extension will be granted. When AQMD predicts that a Stage III episode level will be reached the following day, an announcement containing the specifics will generally be provided by 2 p.m. on the day the prediction is made.

6-7 TIME OF COMPLETION

6-7.1.1 Specified Contract Time. The Contractor shall complete the work within **Sixty (60)** working days after the commencement date specified in the Notice to Proceed.

6-8 COMPLETION, ACCEPTANCE, AND WARRANTY

When, in the judgment of the Public Works Director, the work has been completed in accordance with the Plans and Specifications and is ready for final acceptance, the Director may accept the work as complete. Upon acceptance of the work, the Director will notify the City Clerk and the City Attorney of the completion thereof, and the City Clerk will file a Notice of Completion with the County Recorder. The date of the Director's acceptance of the work will be the date when the Contractor is relieved from responsibility to protect and maintain the work. The warranty period of the Work shall commence on the date the Notice of Completion is filed with the County Recorder.

6-9 LIQUIDATED DAMAGES. The following Liquidated Damages are applicable to the completion of this project. All liquidated damages indicated shall not be construed as a penalty, and may be deducted from payments due Contractor if such incidents occur:

1. Liquidated damages shall be assessed in the amount of **\$2,500 per calendar day** that exceeds the number of working days designated for this Contract under Section 6-7, Time of Completion.

SECTION 7 RESPONSIBILITIES OF THE CONTRACTOR

7-2 LABOR

7-2.2.1 Prevailing Wages/Certified Payrolls. A schedule of prevailing wage rates as published by the California Department of Industrial Relations for the types of work to be done under these Special Provisions is on file in the office of the City Clerk, City Hall, 3900 Main Street, Riverside, which schedule is open for inspection to any interested party on request. The Contractor and all subcontractors shall pay not less than these rates. The Contractor shall submit weekly certified payrolls of all workers employed on this project.

If the Contractor has not submitted satisfactory payrolls for the period during which the work included in the Contractor's payment request was performed, the City will retain an amount equal to 10 percent of the estimated value of the work performed (exclusive of Mobilization) from that payment.

This retention shall not exceed \$10,000 nor be less than \$1,000. Retentions for failure to submit satisfactory payrolls shall be additional to all other retentions provided for in the contract. The retention for failure to submit payrolls for any work period will be released for payment only after all the satisfactory payrolls for which the retention was made are submitted. Payment of the retention will be made on the next monthly payment due the contractor after the satisfactory payrolls are received by the City.

Attached to these Special Provisions is a set of federal prevailing wage rates obtained from the granting agency. On this project, the Contractor and subcontractors are required to pay either the federal wage rates or the current wage rates published by the California Department of Industrial Relations, whichever is higher.

The possibility of wage increases is one of the elements to be considered by the Contractor in determining Contractor's bid. No additional compensations will be made for any increases in prevailing wage rates in excess of those set forth in the Contract. However, if the job is prolonged as a result of construction change order(s) or delayed by the City beyond the specified days in the Time of Completion, reimbursements may be made for increases in prevailing wage rates, but only for the working days beyond that stipulated in Section 6-7.

7-3 LIABILITY INSURANCE

7-3.1 Insurance Requirements.

- a. Secure and Maintain Insurance. Prior to City's execution of the Agreement, Contractor shall secure, and shall thereafter maintain without lapse of coverage until completion of the Contract, such commercial general, automobile, and professional liability insurance as shall protect Contractor from claims for damages for personal injury, including accidental death, as well as from claims for property damage which may arise from or which may concern operations under the Contract, whether such operations be by or on behalf of Contractor, any Subcontractor or anyone directly or indirectly employed by, connected with or acting for or on behalf of any of them.
- b. Provide Certificates of Insurance. Prior to the City's execution of the Agreement, Contractor shall submit an original certificate of insurance to the Public Works Department verifying the General Commercial Liability and Automobile Liability insurance in the required limits with the required provisions as stated below.
- c. Provide Additional Insured Endorsement. Prior to the City's execution of the Agreement, Contractor shall submit an Additional Insured Endorsement to the Public Works Department. Contractor must use the attached Additional Insured Endorsement form provided by the City, or one that is substantially similar to and approved by the City Attorney [i.e. ISO CG 2010 (11/85)].

7-3.2 Proper Insurance Company. All liability insurance shall be issued by an insurance company or companies authorized to transact liability insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class VII or larger.

7-3.3 Coverage. Coverage shall be at least as broad as the following:

- a. Commercial General Liability. Insurance Services Office Commercial General Liability Coverage (occurrence Form CG 0001). This coverage shall include:
 - i. Manufacturers and Contractors liability,
 - ii. Broad form property damage in any case where the Contractor has any property belonging to the City in the Contractor's care, custody, or control,
 - iii. Owners and Contractors' protective liability,
 - iv. Blanket contractual liability,
 - v. Products and completed operations coverage, and
 - vi. Coverage for collapse, explosion, and excavation.
- b. Automobile Liability. Insurance Services Office Automobile Liability Coverage (Form CA 0001), covering Symbol 1 (any auto). This coverage shall include:
 - i. Coverage for owned, non-owned, and hired automobiles

7-3.4 Limits. The Contractor shall maintain limits no less than the following:

- a. Commercial General Liability. One million dollars (\$1,000,000) per occurrence and two million dollars (\$2,000,000) aggregate for bodily injury (including death), personal injury and property damage, unless otherwise authorized by the City's Risk Manager, or his designee.

If Commercial General Liability insurance or other form with a general aggregate limit or products-completed operations aggregate limit is used, either the general aggregate limit shall apply separately to the work (with the ISO CG 2503, or ISO CG 2504, or insurer's equivalent endorsement provided by the City) or the general aggregate limit and products-completed operations aggregate limit shall be twice the required occurrence limit.

- b. Automobile Liability. One million dollars (\$1,000,000) per occurrence for bodily injury (including death), and property damage for each accident/incident, unless otherwise authorized by the City's Risk Manager, or his designee.
- c. No Limitation on Indemnification. These minimum amounts of coverage shall not constitute any limitation or cap on Contractor's indemnification obligation.
- d. Builder's Risk/Installation Floater Insurance. Contractor acknowledges that the City retains its own builder's risk policy. Unless otherwise set forth in the special provisions, Contractor shall obtain their own builder's risk insurance. In any event, should an event occur that is caused by the negligence or willful misconduct of the Contractor or its agents, employees, subcontractors, hiree's or invitees, in which City must make a claim under its builder's risk policy, Contractor shall be responsible for the City's deductible.

7-3.5 Required Provisions.

- a. Policies shall include premises/operations, products, completed operations, independent contractors, owners and contractors' protection, explosion, collapse, underground hazard, broad form contractual, personal injury with employment exclusion deleted, and broad form property damage.
- b. The policy shall be endorsed to waive any right of subrogation against the City, and its Subconsultants, employees, officers, agents and directors for work performed under this Contract.
- c. The policy shall specify that the insurance provided by Contractor will be considered primary and not contributory to any other insurance available to the City of Riverside.
- d. The policy shall include the following provision:

"Solely as respects WORK done by and on behalf of the named insured for the City of Riverside, it is agreed that the City of Riverside and its officers, employees and agents are added as additional insured under this policy."
- e. If policies are written on a claims made basis, the certificate should so specify and the policy must continue in force for one year after completion of the project. The retroactive date of the coverage must also be listed.

7-3.6 Expiration, Cancellation or Material Change. The policies shall not be canceled unless thirty (30) days prior written notification of intended expiration, cancellation or material change has been given to the City of Riverside by certified or registered mail.

7-3.7 Deductibles and Self-Insured Retentions. Any deductible or self-insured retention must be declared to and approved by the City of Riverside. The City reserves the right to either approve, reduce, or eliminate such deductibles or self-insured retentions.

7-4 WORKERS' COMPENSATION / EMPLOYER'S LIABILITY INSURANCE

7-4.1 General. The Contractor and all subcontractors shall insure (or be self-insured), under the applicable laws relating to workers' compensation insurance, all of their employees performing the work, in accordance with the "Workers' Compensation and Insurance Act", Division IV of the Labor Code of the State of California and any Acts amending thereof.

7-4.2 Insurance Requirements.

- a. Secure and Maintain Insurance. Prior to City's execution of the Agreement, Contractor shall secure, and shall thereafter maintain without lapse of coverage until completion of the Contract such workers' compensation and/or employer's liability insurance.

- b. Provide Certificates of Insurance. Prior to the City's execution of the Agreement, Contractor shall submit an original certificate of insurance, or self-insurance, to the Public Works Department verifying that Workers' Compensation insurance is in effect in the required limits with the required provisions as stated below, or that Contractor is self-insured for such coverage.

If Contractor has no employees, a certified statement to that affect shall be submitted to the Public Works Department, acknowledging that if Contractor does employ any person a certificate of insurance shall be submitted as provided in this section.

- c. Workers' Compensation Certification. Contractor shall comply with Labor Code Section 1861 by signing and filing the Workers' Compensation Certification, contained in the Contract Documents, with the City Attorney.

7-4.3 Proper Insurance Company. All worker's compensation/employer's liability insurance shall be issued by an insurance company or companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class VII or larger.

7-4.4 Limits. Statutory limits are required for Workers' Compensation. Employer's Liability shall be no less than one million dollars (\$1,000,000).

7-4.5 Required Provisions.

- a. The policy shall be endorsed to waive any right of subrogation against the City, and its Subconsultants, employees, officers, agents and directors for work performed under this Contract.

7-4.6 Expiration, Cancellation or Material Change. The policy shall not be canceled unless ten (10) days prior written notification of intended expiration, cancellation or material change has been given to the City of Riverside by certified or registered mail.

7-5 PERMITS

7-5.1 City Construction Permit. No work shall be started within the street right-of-way or on City property until the Contractor has obtained a construction permit from the Public Works Department.

7-5.2 Local Licenses. The Contractor shall obtain and pay for all licenses necessitated by the Contractor's operations. Prior to starting any work, the Contractor shall be required to have a City of Riverside Business Tax Registration valid for the life of the Contract; subcontractors shall also have Business Tax Registrations valid for the time they are engaged in the work.

7-6 THE CONTRACTOR'S REPRESENTATIVE

The superintendent is required to attend the Preconstruction Conference.

The City may suspend the work if a superintendent is not present during construction.

The superintendent will be required to meet with the Engineer on a daily basis. The purpose of these daily meetings is to ensure adequate coordination and discussion between the Engineer and Contractor during construction. Arrangements for the daily meeting will be discussed at the Preconstruction Conference.

The Superintendent shall meet with the Engineer within forty-five (45) minutes of notification of the superintendent or superintendent's office.

7-8 WORK SITE MAINTENANCE

7-8.1.1 General. The generation of dust shall be controlled as required by the Air Quality Management District. Grading activities shall cease during periods of high winds (greater than 25 MPH). Trucks hauling soil, dirt, sand or other emissive materials shall have their loads covered with a tarp or other protective cover as determined by the Engineer.

7-8.4.2 Storage in Public Streets and Right-of-Way. Construction equipment and materials shall not be stored in public streets and right-of-way.

Excavated material, except that which is to be used as backfill in the adjacent trench, shall not be stored in public streets and right-of-way unless otherwise specified in these Special provisions or approved by the Engineer. Immediately after placing backfill, all excess material shall be moved from the Work site.

7-8.4.3 Storage of Equipment and Material on Private Property. If the Contractor wishes to use private property as a Construction Yard, then prior to any staging, storing, or parking of any Contract equipment and/or materials on said private property, the Contractor shall comply with the following requirements:

- a. The Contractor must provide the Engineer a site map for review indicating the proposed location of the Construction Yard;
- b. The location of the Construction Yard must be approved by the Engineer and written approval must be provided to the Contractor by the Engineer;
- c. The Contractor shall submit to the Engineer a copy of the written agreement with the legal owner of the affected property to be used as a Construction Yard;
- d. Within the Construction Yard itself, the Contractor must comply with the Best Management Practices for storm water protection as required by the Contract documents and current Public Works Standard Drawings for construction.
- e. The Contractor shall also not deliver or remove any equipment or material outside the Contract construction hours specified.

7-8.6 Water Pollution Control.

7-8.6.2.1 Best Management Practices. The Contractor must follow and implement the Best

Management Practices (BMPs) required by the attachment to these Special Provisions titled "Best Management Practices for Typical Construction Activities".

Contractor shall provide copies of certification that the superintendent or foreman has attended a Stormwater Pollution Prevention course within the last 12 months. Any work requiring the placement of BMP's shall not begin until this certification is provided to the Engineer.

7-8.6.5 Payment. The Contractor's cost of implementing the required BMP's for all project activities shall be included with other items of work.

Any BMP required to protect storm water quality shall be installed within 24 hours of the time Contractor is notified by the Engineer or regulatory agencies to install such BMP's.

7-8.7.1 Drainage Control. Special attention is directed to possible flood hazards, and/or nuisance water such as irrigation and other runoff. The Contractor shall be responsible for all injuries or damages to any portion of the work and/or any private or public property occasioned by these causes and shall make good such injuries or damages at no cost to the City prior to the completion and acceptance of the work.

7-10 PUBLIC CONVENIENCE AND SAFETY

7-10.1 Access. The Contractor shall provide traffic control and schedule the construction work based on the following criteria and constraints:

1. No reduction of the traveled way width shall be permitted before **7:00 a.m.** nor after **3:30 p.m.** on any street unless prior approval in writing is obtained from the Director of Public Works. During operations that require lane reduction, the Contractor shall provide and maintain two twelve-foot-wide lanes to provide one thru lane in each direction at all times. The Contractor shall also not store construction equipment within any public streets and right of way outside the previously specified hours. The Contractor shall also not deliver/remove any equipment or material to/from the Construction Yard or work area outside the previously specified hours.
2. Access to all properties shall be maintained at all times and not impact their daily operations. If necessary, the Contractor shall construct driveways in phases or in a manner to ensure no disruption to accessibility, including installing steel plating if necessary.
3. The City may install Public Notification signs at locations adjacent to the project limits. The Contractor is responsible to protect, maintain and move these signs as necessary. At the completion of the project, the Contractor is responsible to carefully remove any signs from the posts, remove posts from ground without cutting, carefully remove any concrete from the posts, repair the post hole, bind the posts, coordinate with the Engineer for transportation to the City Corporation Yard and transport signs and posts to the location determined by the Engineer without damage. If signs are damaged and deemed unusable, the cost of replacement signs shall be reduced from payment.

4. The Contractor shall allow the City PUD Water Division forces two (2) working days for each facility to be relocated or newly installed, including water meters, fire hydrants, blow-off valves, air release valves, etc, for connecting each facility to an existing City water line. The Contractor shall provide the Engineer a ten (10) working day written notice in order to schedule the City PUD Water Division work.
5. The Contractor shall allow the City PUD Electric Division forces two (2) working days for electric facility proposed or relocated including all services to any proposed electric facilities to be installed by the Contractor. The Contractor shall provide the Engineer a ten (10) working day written notice in order to schedule the City PUD Electric Division work.
6. The Contractor shall provide and maintain traffic control during all construction activities in accordance with the Work Area Traffic Control Manual Handbook (WATCH). If the Contractor cannot provide and maintain traffic control as required, then the Engineer may direct the Contractor to provide, maintain, and update a full traffic control plan, with no additional compensation, as described in Section 7-10.2.2 of these Special Provisions.
7. The Contractor shall provide traffic control for the protection of the City survey crew while providing construction staking services within grading areas for the project.
8. The Contractor shall be responsible to obtain all replacement gate valve, pull box, and/or water meter boxes when directed by the Engineer **as described in Sections 301-1.7.1 and 303-5.9 of these Special Provisions.**
9. The Contractor is required pave the roadway after the commencement of Cold Milling (Types CM2 and CM3) work; pour concrete after the commencement of excavation work for all new sidewalks, driveways, driveway match-ups, pedestrian ramps, and/or curb and gutter; and/or complete the asphalt repair for the open slots within the allotted time requirements **as described in associated sections within Part 3 of these Special Provisions.**

7-10.1.1.2 Pedestrian Access. The Contractor shall provide and maintain a minimum 5-foot-wide path for pedestrian traffic through the construction site. If a path through the construction site and within street right of way is not possible, the Contractor shall lay out and maintain a safe and direct pedestrian path around the construction site within the public right of way. The pedestrian path shall be approved by the Engineer.

7-10.2.2 Traffic Control Plan (TCP).

7-10.2.2.1 General. If required by the Engineer, the Contractor shall prepare and maintain a traffic control plan with no additional compensation. The plan shall be prepared, stamped and signed by

either a licensed Traffic Engineer or a Civil Engineer. The preparation of the plan shall be in accordance with the latest edition of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and the State Standard Specifications. The plan(s) shall be to scale, typically 1"=40' or 1"=50' and shall follow Caltrans Plan Preparation Manual, latest edition. The plan shall reflect existing signing and striping, curbs, lane widths, raised medians, etc. The Contractor, at the pre-construction meeting, shall submit two full size bond plan sets for review. Work shall not commence without an approved traffic control plan.

7-10.2.2.2 Payment. Payment for "Traffic Control and Access" shall be made at the Contract lump sum price and shall include, but not be limited to, the preparation, printing, maintenance and required updates of the traffic control plan along with the installation, maintenance, and removal of all required traffic control items, including all signing, posting, lane delineation, message boards, barriers, trench plates and flaggers required to complete the project. Payment shall also include the cost to furnish and install any item as described in Section 7.-10.1 through 7-10.2.2.1 of these Special Provisions unless specifically included in a separate bid item.

7-10.2.3 Street Closures, Detours, Barricades. For convenience to the Contractor to comply with the other provisions of this section, the following telephone numbers are listed:

| | |
|--|----------------|
| Police Department..... | (951) 826-5700 |
| Fire Department | (951) 826-5321 |
| Traffic Engineering Division | (951) 826-5366 |
| Traffic Signal Maintenance | (951) 351-6096 |
| Street Light Repair | (951) 351-6005 |
| City Electric, Water (After hours) | (951) 687-0791 |
| American Medical Response Ambulance Service..... | (951) 684-5520 |
| RTA..... | (951) 684-0850 |
| Street Superintendent..... | (951) 351-6127 |
| Riverside Schools..... | (951) 788-7134 |
| Alvord Schools..... | (951) 351-9325 |
| Special Services Transportation..... | (951) 687-8080 |
| AT&T (Emergency)..... | (951) 811-2121 |
| Gas Company (Emergency)..... | 800-427-2200 |
| Gage Canal Office..... | (951) 780-1333 |
| Verizon Wireless (24-7 Repairs) | 800-483-2000 |
| Sherman Indian High School..... | (951) 276-6325 |

The Contractor is not relieved of the responsibility of notifying the various departments and agencies, if these telephone numbers are changed.

The Contractor will not be permitted to close any road without prior written permission from the Public Works Director. The Contractor will be required to submit for approval a "Road Closure and Traffic Control Plan" that has been prepared by either a licensed Traffic or Civil Engineer. If a full closure is required, submittal of the plan shall be at least five (5) working days prior to the start of work. Partial traffic control plan shall be submitted at least two (2) working days prior to the start of work. The plan shall indicate the location and type of signs and barricades to be utilized. The adequacy of the

signing shall be determined by the Engineer. Prior to preparation of the Plan, the Contractor is advised to discuss the proposed Plan with the Engineer.

No work (except for emergencies) that requires lane closures shall be allowed on the day before a City Holiday unless specifically approved by the Public Works Director in advance.

The Contractor shall notify the Inspector 48 hours prior to any change in the approved Traffic Control Plan. In case of a full closure, the Contractor shall provide barricades and reflectorized "Road Closed to Through Traffic" signs at the intersections immediately in advance of all such closures at all such closures, at entrances to the closures, and at all detour route signing. Detour signs shall be posted on wood or metal posts. Signs shall not be posted on any tree, utility pole or traffic signs.

Construction signs, barricades, and their applications shall conform with the most current issues of the State of California Business and Transportation Agency, Department of Transportation, Division of Operations "Uniform Sign Chart" and the "Manual of Traffic Controls" for Construction and Maintenance Work Zones.

7-10.4.6 Public Safety During Non-Working Hours. Public safety at or in the affected vicinity of the jobsite is the Contractor's responsibility at all times. If, in the absence of the Contractor, the Engineer determines that an unsafe condition exists at or in the affected vicinity of the jobsite, the Engineer will endeavor to notify the Contractor to correct the unsafe condition. However, the Engineer reserves the right to direct City forces to perform any functions Engineer may deem necessary to ensure public safety. If such procedure is implemented the Contractor will bear all expenses incurred by the City. In all cases the judgment of the Engineer shall be final in determining whether or not an unsafe situation exists.

7-10.6 Public Notification of Construction. The construction schedule required under Section 6-1.1 of these Special Provisions shall allow ample "on-street" parking for affected people, within a reasonable distance from their homes and businesses. Requests for changes to the schedule shall be submitted by the Contractor to the Engineer at least 48 hours prior to the scheduled operation to be changed.

The Contractor shall provide a construction advisory letter, subject to the approval of the City Engineer, to all affected residences and businesses adjacent to the work site a minimum of 7 days and maximum of 14 days prior to construction in each area of the project (see sample letter included in Part 10 of these Special Provisions). The letter shall indicate the duration of the proposed construction and state if alternate parking arrangements will be necessary. Projects that have multiple locations shall have a separate letter for each location and distribution for each area shall be **7 to 14 days prior to** construction beginning in the area. The City Inspector shall be notified 48 hours in advance of letter distribution and shall be on site during distribution of letter (**Letters shall not be placed in mailboxes**).

In addition, the Contractor shall provide another construction advisory letter, subject to the approval of the Engineer, to all affected residences and businesses adjacent to the work site a minimum of 48 hours prior to construction on each street. The letter shall indicate the duration of the proposed construction and also state if alternate parking arrangements will be necessary.

"Temporary No Parking Signs" shall be posted for a continuous 48 hour period in advance of the work. These signs shall read "Temporary Tow-Away Zone, No Parking, RMC 10.12.080(b), (c); CVC 22651 (l), (n)". A sample will be provided at the Preconstruction Conference. The signs shall be placed no more than 100 feet apart on each side of the street and at shorter intervals if conditions warrant. The Contractor shall provide the signs and will be responsible for adding the dates and hours of closure to the signs. All signs shall be removed within 24 hours after the effective date. If the date of closure is changed, the Contractor will be responsible for reposting the signs in accordance with the above requirements.

At least (2) public notification signs shall be installed at each project site by the City. Signs shall be posted a minimum of one week prior to commencement of construction.

SECTION 8 FACILITIES FOR AGENCY PERSONNEL

8-1 GENERAL

Facilities for City personnel will not be required.

SECTION 9 MEASUREMENT AND PAYMENT

9-2 LUMP SUM WORK

9-2.1 Payment Schedule. The Contractor shall submit a payment schedule for all lump sum bid items. The schedule shall be submitted in accordance with Section 9-2 of the Standard Specifications.

9-3 PAYMENT

9-3.1.1 Payment. Payment for the Various items of the Bid Sheets, as further specified herein shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of work specified and shown on the drawings, including all appurtenances thereto, and including all costs of compliance with the regulations of public agencies having jurisdiction, including Safety and Health requirements of the California Division of Industrial Safety and the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA). No separate payment will be made for any item that is not specifically set forth in the Bid Sheet(s), and all costs therefore shall be included in the price named in the Bid Sheet(s) for the various listed items of work.

The City of Riverside payment process is through an electronic transfer process. Contractors or Suppliers must be set up for this payment process in order to be compensated for materials and/or services.

9-3.2 Partial and Final Payment.

From each progress estimate, 5 percent will be deducted and retained by the Agency, and the remainder less the amount of all previous payments will be paid.

9-3.2.1 Final Pay Quantities. When the estimated quantity for a specific portion of the work is designated on the Plans, in these Special Provisions or on the Proposal Forms as a final pay quantity by being marked by an (“F”) adjacent to the bid item involving that portion of the work, the estimated quantity for that portion of the work shall be considered the final quantity for which payment will be made, unless the dimensions of that portion of the work are changed on the Plans by the Engineer or that portion of the work is eliminated. If the dimensions of that portion of the work are revised and the revision results in an increase or decrease in the estimated quantity of that portion of the work, the final quantity for payment will be revised in the amount represented by the changes in dimensions. If that portion of the work is eliminated, the final pay quantity designated for that portion of the work will be eliminated.

The estimated quantity for such specific portion of the work shall be considered as approximate only and no guarantee is made that the quantity which can be determined by computations, based on the details and dimensions shown on the Plans, will equal the estimated quantity. It shall be the bidder’s responsibility to judge, based on the details and dimensions shown on the Plans and observation at the jobsite, the accuracy of the estimated quantity, making adjustments to the bid prices as the bidder feels necessary. No later allowance or adjustment in payment will be made in the event that any quantity based on subsequent computations or measurements does not equal the estimated final pay quantity.

When portions of an item have been designated on the Plans as final pay quantities, portions not so designated will be measured and paid for in accordance with the applicable provisions of these Special Provisions and the Standard Specifications.

In case of discrepancy between the quantity shown on the Plans as a final pay quantity and the quantity of the same item shown on the Proposal Forms, payment will be based on the quantity shown on the Proposal Forms.

9-3.4 Mobilization.

9-3.4.1 Payment. Payment for mobilization includes cost for preparing and maintaining the construction schedule and any required updates, cost for the construction advisory letter and maintenance and removal of the public notification signs and submittal, fabrication, erection, maintenance and removal of the “Temporary No Parking Signs” as required under Section 7-10.6 of these Special Provisions.

9-3.5 Progress Payments. Progress payment requests shall be processed in accordance with the provisions of Public Contract Code Section 20104.50, which is summarized as follows:

- (a) Upon its receipt of Contractor's written payment request, City shall review it as soon as practicable to determine whether it is a proper payment request. If City determines that it is not a proper payment request suitable for payment, City shall return it to Contractor as

soon as practicable, but not later than seven days after its receipt, together with a document setting forth in writing the reasons why it is not proper.

- (b) If City fails to make a progress payment within thirty days after it receives an undisputed and properly submitted payment request from Contractor, City shall pay interest on the correct amount thereof at the legal rate set forth in Subdivision (a) of Section 685.010 of the Code of Civil Procedure.
- (c) The number of days available to City to make a payment without incurring an interest obligation thereon shall be reduced by the number of days by which the City exceeds the seven day return requirement of (a) above for return of an improper request.
- (d) A "progress payment" includes all payments due under the Contract, except that portion of the final payment which is designated as retention earnings, and a payment request shall be considered properly executed if funds are available for payment thereof and payment is not delayed due to an audit inquiry by City's financial officer.

9-3.6 Retention Payment. City's payment to Contractor of the retention amounts withheld from progress payments made during the performance of the Work, and Contractor's disbursement thereof to Contractor's subcontractors, shall be subject to the requirements of Public Contract Code Section 7107, the Stop Notice withholding laws of the State of California and other provisions of the Contract. City's payment obligations under Section 7107 are summarized herein; by executing the Contract Agreement, Contractor will be confirming knowledge of and responsibility for disbursement of the retention payment to Contractor's subcontractors.

- (a) Within sixty days after the date of completion of the Work, City shall pay the undisputed and unencumbered portion of the retention amount to Contractor. If City disputes any portion of the amount Contractor demands, City will withhold from its payment an amount not exceeding 150% of the disputed amount.
- (b) If City fails to pay the undisputed and unencumbered portion of the retention amount due Contractor within sixty days after the date of completion of the Work, City shall pay Contractor a charge of 2% per month on the amount improperly withheld in lieu of any other interest amount otherwise payable by operation of law. In any lawsuit brought for collection of amounts alleged to be wrongfully withheld by City, the prevailing party shall be entitled to attorney's fees and costs.
- (c) "Completion" for purposes of this Section means any of the following events:
 - (1) Occupation, beneficial use and enjoyment of the Work by City, excluding testing, startup and commissioning activities, accompanied by Contractor's cessation of labor thereon;
 - (2) Acceptance of the Work by City;

- (3) Contractor's cessation of labor for a continuous period of 100 days or more due to factors beyond Contractor's control; or
- (4) Contractor's cessation of labor for a continuous period of 30 days or more if and after City records a notice of cessation of work or notice of completion.

9-4 FINAL PAYMENT AFTER FINAL ACCEPTANCE

After the work has been accepted by the Public Works Director, as provided in Section 6-8 of the Special Provisions, payments will be made to the Contractor subject the following:

The Engineer will make a proposed final estimate in writing of the total amount payable to the Contractor. Within 30 calendar days of receipt of the proposed final estimate, Contractor shall submit written approval of the proposed final estimate, or a written statement of all claims arising under or by virtue of the contract. No claim will be considered that was not included in the written statement of claims, nor for which a Notice of Potential Claim was required, under Section 3-7 of Special Provisions.

Upon Contractor's approval of the proposed final estimate, or if the Contractor fails to file a claim within the specified period, the Engineer will process a request for final payment. City's issuance of a final payment shall bar Contractor's right to any claim arising out of the contract.

If the Contractor files a claim within the specified period, the City will review and make a final determination of such claim, in accordance with Section 3-5 of the Special Provisions and/or other applicable sections. Claims submitted by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of those claims.

The Contractor is required to track and record all changes made throughout the completion of the project and shall submit a complete red-lined copy of the construction plans to the Engineer for review of those changes indicated. If necessary, the Contractor shall address any comments and resubmit the red-lined plans. Upon approval by the Engineer, the Contractor shall submit 2 hard copies and 1 electronic PDF copy of the final approved red-lined plans. A Notice of Completion and/or Final Payment will not be released until the approved red-lined plans are received as described. The cost of the work and materials to provide the approved red-lined construction plans shall be included in the cost for Mobilization.

END OF PART 1.

PART 2 CONSTRUCTION MATERIALS

203-6 ASPHALT CONCRETE

Where dense graded asphalt is being constructed in two layers or more, the Asphalt Concrete pavement for the base course shall be B-PG-64-10. When dense graded asphalt is being constructed in a single layer and for a finishing course or Asphalt Concrete overlay, the Asphalt Concrete pavement shall be C2-PG-64-10.

END OF PART 2.

PART 3 CONSTRUCTION METHODS

300-1 CLEARING AND GRUBBING

300-1.3 Removal and Disposal of Materials. Clearing and grubbing shall be performed wherever construction is to be performed. Clearing and grubbing includes removal and disposal of all above-ground material including, but not limited to, abandonment of conduits and structures, demolishing of structures as required, and vegetation including small trees less than 6" in diameter.

Prior to cutting any service systems, such as sprinklers, the Contractor shall test the system and make necessary adjustments to keep the remaining irrigated areas serviced.

Traffic signs to be salvaged shall be delivered to the City of Riverside storage facility. The Contractor shall call the Street Services Division at 351-6127 for delivery location and instructions.

Disposition of other existing signs shall be as shown on the plan(s) and/or as directed by the Engineer. This may include temporary sign relocations due to construction or stockpiling of signs at the job site. The Contractor will be responsible for maintaining the condition of all signs specified herein.

If an existing sign post is not suitable for reinstallation and a replacement is not available from salvaged sign posts, then its replacement will be considered as Extra Work and paid for in accordance with these Special Provisions and the Standard Specifications.

Mail boxes and posts within the construction area shall be salvaged and temporarily set in an upright condition where easily accessible for mail delivery and accessible by the property owner. Posts and boxes shall be reinstalled in final position by the Contractor as shown. Broken posts shall be replaced by the Contractor at Contractor's cost. Replaced posts shall be, at the option of the Contractor, 4" x 4" redwood or 2" galvanized steel pipe unless otherwise noted on plan to re-use the existing post as requested by the property owner.

If the Contractor encounters existing asphalt material extending onto the PCC gutter, and the gutter is not proposed to be overlaid, then the Contractor shall be required to remove the overlay in such a manner that damage to the gutter will not occur. If, in the opinion of the Engineer, the existing gutter's flow or riding characteristic have been altered by the AC removal, the Contractor, at Contractor's expense, shall make repairs to restore the gutter quality to its original state. Payment for AC removal from gutter shall be included in the Contract lump sum price for Clearing and Grubbing.

300-1.3.2 Requirements.

(d) Signal Detector Frame and Foundation. Signal detector frame and foundation shall be removed and the remaining void shall be backfilled and compacted with residue AC from cold milling operations or crushed aggregate base to the level of the existing grade. Additional AC may have to be placed as a leveling course to provide a smooth ride across the detector removal areas. The Contractor shall be responsible for the lawful disposal of the removed items. Removal of frame and foundation shall be considered as part of Clearing and Grubbing.

300-1.4 Payment. The Contract lump sum price for Clearing and Grubbing shall be considered full compensation for all work described under Section 300-1, "Clearing and Grubbing" of the Standard Specifications and these Special Provisions. Trees greater than 6 inches in diameter which are to be removed or relocated will be paid for separately.

300-2 UNCLASSIFIED EXCAVATION

300-2.1 General. This project is expected to generate approximately 380 cubic yards of excess excavated material including the volume of all existing surface and below-surface improvements including, but not limited to, curb, gutter, sidewalk, and AC pavement. The lawful disposal of all excess material generated by this project is the Contractor's responsibility.

300-2.2.3 Unsuitable Material for Street Improvements. If, in the Contractor's opinion, unsuitable material is encountered to properly construct any of the improvements indicated on the plans, the Contractor shall immediately notify the Engineer. The Engineer will determine the suitability of the material and/or subgrade. Based on the Engineer's decision the contractor may be directed to remove and dispose of all unsuitable materials and replace with suitable materials.

Payment for "Additional Removal of Existing Deteriorated AC" shall be based on the unit price per cubic yard for this work. The payment shall include all work necessary to properly remove and dispose all materials.

Payment for "Asphalt Pavement (DGAC) – For Additional Removal Areas" shall be based on a per ton basis. This payment shall be full compensation for all labor, tools, equipment, furnishing of materials, placement, traffic control, and clean-up at the discretion of the Engineer.

The provisions of Section 3-2.2.1 of the Standard Specifications do not apply to any of these bid items.

300-2.9 Payment. Payment for Unclassified Excavation shall include, but not limited to, work identified as "CM3" and paid at the Contract unit prices including any necessary fill, compaction required by the Plans and Standard Specifications, hauling and lawful disposal of excess material.

301-1 SUBGRADE PREPARATION

301-1.6.1 Schedule and Tolerances of Manhole Adjustment. Sewer and storm drain manhole frames and covers shall be raised to the finished grade by the Contractor within 48 hours of final paving. The Contractor shall raise the tops of all frames and covers to range from flush to 1/4" above the finished grade of the immediately adjacent pavement. Regardless if any utility frame or cover requires an adjustment to complete the project, if any utility covers are located within the limits of the improvements, the Contractor shall thoroughly clean all covers to remove any markings, stains, striping, etc., unless otherwise directed by the Engineer.

301-1.6.2 Riverside Public Utilities (RPU) - Water Manholes and Valve Boxes. At the option of the City, the Contractor shall adjust water manhole frames and covers and water gate valve covers to

range from flush to 1/4" above the finished grade of the adjacent pavement. All dirt and debris are to be removed from the valve box to a depth of 6" below the operating nut.

Adjustment of water gate valve covers installed after March, 1983 (cap & liner type) shall be in accordance with STD. DWG. C.W.D. - 515. On water gate valve covers installed prior to March, 1983 (frame & lid type); if the frame skirt is raised above the existing gate box material (steel pipe), the gate box material should be extended as required. This extension must match the existing steel pipe O.D. & I.D. and must be secured with at least (3) equally spaced one inch welds OR the Contractor may choose to replace the Frame & Lid with a Contractor supplied Cap & Liner. If a Cap & Liner is used, the Contractor must drill a 1/4" hole in the new cap, 3/8" inside the interior ring on the cap surface. A Contractor supplied 1/4" x 1-1/2" brass roundhead screw must be installed and the existing gate tag (with copper wire) inserted on the inside of the cap, then held on with a 1/4" brass washer and nut. The top of all water valve covers shall be painted in accordance with Riverside Public Utilities Water Division Specification No. 205.

Marking Paint - Lead Free
Aervoe Pacific - #203 Blue
Ground Traffic Coating - VOC<66%

Valve boxes smaller than (8) inches in diameter shall be replaced with 8" gate box material and a "cap & liner" type gate valve cover, in accordance with Riverside Public Utilities Water Division Specification No. 205. Any valve box found to be corroded, bent or otherwise previously damaged, making adjustment impractical or not feasible, shall be replaced. The inspector shall determine at the time of construction if the valve boxes in question shall be adjusted or replaced. The City will furnish new gate box materials and "caps and liners" for valve box replacements, however the Contractor shall be responsible for obtaining the materials from the City Corporation Yard to the Project site. Arrangements for obtaining these materials from the City's Corporation Yard at 8095 Lincoln Avenue shall be made through the Inspector 15 working days prior to scheduled installation.

Two foot by two foot rectangular valve covers marked "Riverside Water Company" will be adjusted to grade by the City.

301-1.6.3 Riverside Public Utilities - Electric Vaults and Manholes. At the option of the City, the Contractor shall adjust electric manhole vault frames and equipment covers so the top ranges from flush to 1/4 inch above the finished grade of the adjacent pavement. All electric manhole and equipment covers adjusted to grade by the Contractor shall be cleaned. Adjustments shall be in accordance with Riverside Public Utilities Electric Division Drawings UGS-053, UGS-062, UGS-435, and UGS-541. All work shall be accomplished in the presence of the Electric Operations representative. The Contractor shall notify the Electric Superintendent of the City Electric Division at 351-6373, two working days in advance of adjustment for scheduling of the representative.

Riverside Public Utilities electric facilities shall be designated as follows:

Manholes use Drawings UGS-062 and UGS-435
Vaults use Drawings UGS-053 and UGS-541

Since electric manholes and vaults contain energized cable and equipment, the Contractor shall use workers that have been properly trained in applicable electrical safety and work procedures to make the manhole and vault adjustments.

Except for the gate box and valve box materials as noted, the Contractor shall provide all the necessary tools, equipment, and materials necessary to perform all awarded adjustments.

301-1.7.1 Payment for Manhole and Valve Cover Adjustments. Payment for adjusting storm drain and sewer manhole frames and covers to finished grade will be made at the Contract unit price for adjusting sewer or storm drain manhole to grade.

Payment for tying out all the covers as stipulated in Section 5-1.1 of these Special Provisions, shall be considered as included in the Contract unit price of the surfacing material used adjacent to the cover and no additional compensation will be made therefor.

Payment for adjusting water or electric manhole frames and covers, vault frames, equipment covers, and water gate valve covers, if made part of the Contract, shall be made at the respective contract unit prices for each item. These payments shall be considered full compensation for all labor, tools, equipment, and materials required to adjust the utility facility.

Payment for adjusting and/or replacing water gate valve, pull box, and /or water meter boxes, if necessary, shall be included in the associated bid item. This payment shall be considered full compensation for all labor, tools, and equipment required to replace the gate valve box and cover with City furnished materials. Payment shall also include the Contractor obtaining the City furnished item from the City's Corporation Yard located at 8095 Lincoln Avenue.

Payment for painting utility covers as specified in these Special Provisions shall be included in the cost of adjusting or installing the item which requires painting.

301-1.8 Traffic Signal Pullbox Adjustments.

Adjustment of traffic signal pullboxes to grade will be subject to the following requirements:

1. The Contractor shall grout the bottom of existing pullboxes that are to remain in place and that are not already grouted with material specified in Section 86-2.06 of the State Standard Specifications. The Contractor shall remove all grout that does not meet the material specifications of Section 86-2.06 of the State Standard Specifications and the Contractor shall excavate within the pullbox to proper depth prior to grouting;
2. The Contractor shall adjust all conduits as necessary so the conductors do not touch the pull box lid. In addition, a minimum clearance of 3" between the top of all conduits and the bottom of the traffic pullbox lid shall be maintained; and,
3. The Contractor shall replace "in-kind" any traffic pullbox damaged as a result of his operations except that the minimum size replacement will be a No. 5 pullbox as

described on State Standard Plan ES-8. Plastic Type No. 5 pullboxes will not be permitted.

302-1 COLD MILLING OF EXISTING PAVEMENT

302-1.1.1 Cold Milling Types. All removal and replacement work shall be performed after cold milling. After performing Type CM1, CM2, or CM3 the contractor shall ramp all vertical edges with a minimum of 12 inches or at 8:1 whichever is greater prior to opening ground areas to traffic.

"Cold Milling – Type CM1" shall be performed in areas designated on the Plans and shall have a minimum width of 5' unless otherwise indicated on the plans. Width shall be measured from the existing gutter lip or the longitudinally joint line. Cold milling shall be 0.12' below the existing pavement.

"Cold Milling – Type CM2" shall be performed in areas designated on the Plans. The milling shall be 0.12' deep minimum unless otherwise indicated on the plans. All 0.12' cold mill areas shall be paved within 5 working days after commencement of milling. Where the CM2 milling exceeds 0.15', the asphalt shall be replaced within in 24 hours after the commencement of the milling. Where the CM2 milling exceeds 0.20', the asphalt shall be replaced utilizing a minimum of 2 lifts (0.10' minimum per lift) with the following criteria: the base course lift(s) shall be completed the same day as the completion of the CM2 milling; and upon completion of the base course replacement pavement, the milled areas may only be 0.10' minimum to 0.12' maximum below the original asphalt surface elevations, unless otherwise indicated on the plans and the finish coarse shall be replaced within 5 working days after initial commencement of milling.

"Cold Milling – Type CM3" shall be "Full-Depth Milling" **as described in Section 302-1.5** of the Standard Specifications and performed in areas designated on the Plans. The milling shall completely remove the asphalt pavement to the depth of the existing base or subgrade. When the replacement asphalt thickness indicated on the plans exceeds the actual existing asphalt thickness, the Contractor shall remove the existing base and/or subgrade and re-compact as necessary to install the new asphalt to the depth indicated, unless otherwise noted or directed by the Engineer. The replacement asphalt for CM3 milling shall be completed utilizing a minimum of 2 lifts (0.10' minimum per lift) with the following criteria: the base course lift(s) shall be completed the same day as the completion of the CM3 milling; and upon completion of the base course replacement pavement, the milled areas may only be 0.10' minimum to 0.12' maximum below the original asphalt surface elevations, and replaced within 5 working days after initial commencement of milling.

302-1.11 Measurement. "Cold Milling – Type CM1" shall be measured by the linear foot for the specified width indicated on the Plans. "Cold Milling – Type CM2" shall be measured by the square foot for the milling depth noted on the Plans. "Cold Milling – Type CM3" shall be measured by the square foot for the entire depth of asphalt pavement.

302-1.12 Payment. Payment for "Cold Milling – Type CM1" shall be the Contract unit price per linear foot for the specified width indicated on the bid proposal. Payment for "Cold Milling – Type CM2" shall be made on a square foot basis for the milling depth indicated on the bid proposal. Payment for work noted on plan as "Cold Milling – Type CM3", shall be paid for under the bid item

“Unclassified Excavation”. Contractor shall remove and dispose subgrade and/or base as necessary to achieve the depths indicated on the plans including any required compaction necessary.

302-5 ASPHALT CONCRETE PAVEMENT

302-5.2 Pavement Preparation. Pavement preparation shall consist of the following:

1. All cracks greater than 1/8" but less than 1/2" in width shall be routed to a minimum width of 1/2" and to a depth of 3/4" to 1" deep.
2. All cracks greater than 1/2" in width shall be routed to a depth of 3/4" to 1".
3. Seven days prior to the crack routing operation, all cracks with existing weeds or grasses shall be treated with a contact herbicide such as Monsanto RoundUp or City approved equal and to the manufacturer's recommendation. Prior to the application of any sealant, all cracks shall be completely cleaned of deleterious material using a blower or an air compressor. All wedged-in materials that are not readily removed by air should be removed by gouging or plowing. In addition, the street surface shall be completely cleaned of all pavement preparation debris by a power-driven street sweeper or other suitable means at the end of each work day.
4. After cleaning and routing but prior to the application of any sealant all cracks shall be treated with a selective pre-emergent herbicide such as ACME Industrial Products Barrier 50W Dichlobenil Herbicide or City approved equal and to the manufacturer's recommendation.
5. All cracks less than 1" in width shall be filled with a Crafcro Polyflex Type 3 Sealant or approved equal. Application shall be with a Heated Joint Seal Machine Crafcro Model BC-220 or City approved equal and to the manufacturer's recommendation. These may be obtained from Crafcro Inc., P.O. Box 20133, Phoenix, Arizona 85036. This treatment method shall be called "Crack Fill."
6. All cracks greater than 1" in width shall be filled with PG 64-16 asphalt concrete. This treatment method shall be called "Crack Repair."
7. All "alligator" cracked areas of the pavement shall be removed to a depth specified by the Engineer as described in Section 300-2 of these Special Provisions and replaced with DGAC. Replacement DGAC shall be described as "Construct DGAC Pavement" on the Plans and in these Special Provisions.
8. Performing traffic control for all work described above unless otherwise unless otherwise included in the bid item for "Traffic Control and Access."

Payment for all required "Crack Fill" and "Crack Repair" shall be at the Contract unit price per linear foot of street centerline and shall include full compensation for all labor, materials, tools, equipment and incidentals required for crack treatment.

302-5.5.1 Methods of Distribution and Spreading. A paving machine that picks up the asphalt concrete material from a windrow then spreads the material to a specified thickness may be used. However, the Engineer may require the Contractor to use a paving machine which accepts the asphalt concrete material directly from the delivery truck, at no additional cost to the City, if the temperature of the asphalt concrete in the windrow cannot be maintained above the lower temperature limit specified in Section 302-5.5 of the Standard Specifications, or if the windrow blocks access to any driveway or side street for more than fifteen minutes prior to the paving machine spreading the asphalt concrete material.

The Engineer reserves the right to suspend delivery of AC to the jobsite to ensure the AC placement operations are completed and the full traveled way is opened to traffic prior to the time limits specified in Subsection 7-10.1 of these Special Provisions.

302-5.7.1 Pavement Joints. Where new pavement joins an existing pavement, the surface will be inspected for smoothness of the seam between the two surfaces. When a six feet long straightedge is laid across the seam between "new" and "old" pavement, the surface shall not vary more than 0.03 feet from the lower edge. At joint lines along new concrete gutters or where the existing asphalt pavement has been removed, the finished surface shall not vary more than 0.00' to 0.05' higher than the concrete surface that is being joined. On existing or proposed bike routes the finished surface shall not exceed 0.02' above the gutter lip.

302-5.9.1 Payment. Payment for asphalt concrete pavement shall be made on a per ton basis. This payment shall be full compensation for all labor, tools, equipment, materials, and traffic control to place and compact asphalt concrete within the limits shown on the plans.

302-14 FOG SEAL

Fog seal shall be accomplished at locations where existing striping or markings will be removed but the roadway surface is not being resurfaced. Fog sealing shall be in accordance with Section 37 "Bituminous Seals" of the State Standard Specifications. Material for the fog seal shall be SS-1h. The rate of application shall be between 0.05 Gal./S.Y. and 0.10 Gal./S.Y. Water shall be added to the emulsion and mixed therewith in such proportion that the resulting mixture will contain not more than 25% of added water, the exact quantity of added water shall be determined by the Engineer. Asphaltic emulsion shall be reheated as necessary, so that when the material is transported to the site of the work, the temperature will be between 150°F and 160°F.

303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, PEDESTRIAN RAMPS, AND DRIVEWAYS

303-5.1.4 General Requirements. In areas where mail delivery is curbside, the Contractor shall provide openings in the sidewalk for the installation of posts for mail boxes. The openings shall be 6 inches square or 6 inch diameter round. The center of the opening shall be 16 inches from the curb face, adjacent to the driveway on the far side related to normal vehicle traffic directions.

Where curb and gutter is to be removed and replaced, the Contractor shall also remove a minimum of 12" of existing pavement to facilitate the setting of forms and compaction of backfill.

Paving replacement shall be 6" full depth AC. The unit price paid for removal and replacement of C&G shall also include full compensation for all removal and replacement of AC adjacent to the gutter. If the inspector gives permission to the Contractor to leave existing asphalt in place and pour the gutter directly against existing AC the City will deduct 15% from the unit price of C&G removal and replacement.

Curb and gutter shall be poured independent (separate) of driveways, pedestrian ramps and sidewalks.

When the grade of C&G is less than 0.4%, the Contractor, at no additional cost, shall place (2) #3 reinforcing bars in the gutter. Construction stakes for curbs with flatter grades than 0.4% shall be every 12.5'.

Where new or replacement curb and gutter lengths are fifty (50) feet or greater, the Engineer will determine the need for construction stakes for grade.

The Contractor shall take measures to prevent graffiti, footprints, tire marks, etc., in the fresh concrete. The Contractor shall be responsible for all markings.

On projects with sidewalk construction, the Contractor, unless otherwise instructed, shall grade the parkway and slopes as shown on Standard Drawing No. 325.

On projects with median hardscape construction, the Contractor shall provide a 3" diameter blockout in the concrete at each median nose that is at least 4 feet wide for installation of traffic signs. This shall be accomplished by embedding a 3" PVC pipe in the concrete 2 feet 6 inches from the curb face at the median nose.

For the construction of concrete spandrels the curb returns will be counted as C&G with a gutter 2 feet wide. Only the remainder of the spandrel will be paid for as cross gutter and spandrel. No additional payment will be made for the extra thickness of concrete in the curb and gutter portion.

When pedestrian ramps are proposed to be constructed within existing concrete spandrels, the Contractor shall sawcut the spandrel to construct the new pedestrian ramp per the City standard drawings including any modifications indicated on the plans.

No mortar finish coat shall be required for curbs.

New sidewalk constructed in areas of existing sidewalk shall be scored to match the existing score pattern. Failure to score the sidewalk appropriately shall be cause for rejection.

On projects with pedestrian ramp construction, the AC pavement shall be placed flush with the concrete gutter along the pedestrian ramp. Removal and replacement of curb, gutter and sidewalk for pedestrian ramps shall be to the nearest joints. Sections less than 5' in width/length shall be removed and replaced as directed by the Engineer. The PCC retaining curb shall be poured monolithic with the adjacent sidewalk or pedestrian ramp.

It is the Contractor's responsibility to mark the approximate saw cut limits for the construction of pedestrian ramps including asphalt pavement areas. The City's Inspector shall review the marked limits before any removals. If the Inspector requests additional removals, then the Contractor must adjust the limits as necessary.

No survey work or staking will be provided by the City for pedestrian ramps, curb, gutter, driveway, and sidewalk construction or replacement unless determined necessary by the Engineer.

The City will not be responsible for additional move-ins needed to remove enough of the existing improvements to construct the proposed improvements.

303-5.5.2 Curb. The face and top of curb shall be carefully troweled to a smooth and even finish. The top of curb shall be finished with a transverse slope toward the gutter and the edges rounded in accordance with Standard Drawing No. 200. The troweled surface shall be finished with a fine-hair broom applied parallel with the line of work. The edge of the concrete at all expansion joints shall be rounded to a 1/4" radius. Joints shall conform to Subsection 303-5.4 of the Standard Specifications.

Application of class "B" mortar to face of curb is not required. Stamping of Contractor's name and the year shall not be performed.

303-5.7.1 Reasons for Rejection.

1. Transverse cracks through the C&G, exceeding 0.01 foot in width at any point.
2. Vertical displacement exceeding 0.01 foot, or which causes water to pond in the gutter for a distance exceeding 2 feet.
3. Serious or extensive surface imperfections.
4. Graffiti, footprints, tire marks, etc., in the fresh concrete. The Contractor shall be responsible for prevention of all markings.
5. Transverse cracks causing 5 feet or less of C&G to be "floating," or unattached to other C&G.
6. Cracks causing 25 square feet or less of sidewalks, approaches, cross gutters, or aprons to be "floating," or unattached to other approaches, cross gutters, or aprons.

Rejected concrete work shall be removed by means of a sawcut at a score line. If no score line exists, the minimum removed area or unscored area left in place shall be 25 square feet and the minimum width shall be 4 feet.

303-5.9 Measurement and Payment. Payment for sidewalk or driveway shall also include payment for removal of existing walk and relocation of existing sprinklers, if any, to the back of the proposed sidewalk. Payment for sidewalk and driveways shall also include adjusting of pull boxes and water meter boxes; a new box will be supplied by the City if the pull box or water meter box is damaged

or not per current City standard specifications. However, the Contractor is responsible for obtaining the City furnished item from the City's Corporation Yard located at 8095 Lincoln Avenue. Payment for sidewalk shall also include compensation for any parkway and slope grading. Where curbs or curb and gutters are transitioning in dimensions or type, the length of transition shall be divided into two equal lengths and each half will be paid for as its adjacent type. Payment for depressed curb and gutter per City Std. 302 shall be included in the cost of Concrete Curb and Gutter per City Std. 200. The Contractor shall pour all new concrete within five (5) calendar days upon commencement of any removals for the above-described work.

Payment for PCC retaining curb shall be at the Contract unit price per linear foot for the curb height required to retain the adjacent slope and shall be poured monolithically with sidewalk, driveways, or driveways matchups. Payment does not include retaining curb to be constructed monolithically with wheelchair ramps. Payment shall also include steel reinforcement when required.

Payment for PCC pedestrian ramp construction shall include payment for the removal and replacement of curb, gutter, sidewalk (to the nearest joint), any sidewalk match ups, ramp, landing, pavement removal and replacement (to comply with the maximum 5% cross fall) and any landscaping and irrigation repair, adjustment or replacement as necessary. Payment also includes construction of retaining curb, as necessary, to protect any existing improvements at the direction of the Engineer for any type of ramp regardless if retaining curb is shown or not shown on the standard drawing.

Payment for wheelchair ramp construction shall also include adjusting of pull boxes and water meter boxes when they are located with any portion of the wheelchair ramp; a new box will be supplied by the City if the pull box or water meter box is damaged or not per current City standard specifications. However, the Contractor is responsible for obtaining the City furnished item from the City's Corporation Yard located at 8095 Lincoln Avenue.

Payment shall also include cost to furnish and install truncated domes per City Standard 304. When constructing a new ramp adjacent to an existing concrete spandrel, the existing spandrel shall be protected in place and saw-cut as necessary to construct new ramp, unless otherwise noted. Payment for constructing depressed curb and gutter when constructing a Type VII Pedestrian Ramp shall not be included in the cost of the pedestrian ramp, but shall be included in the cost of Concrete Curb and Gutter per City Std. 200.

Payment for Type VII Wheelchair Ramp shall include construction of the new wheelchair ramp per Pedestrian Ramp Type VII Drawing in Part 10 of these Special Provisions. Payment for Type VII Wheelchair Ramp shall include the cost to furnish and install truncated domes per City Standard 304. Payment for Type VII Wheelchair Ramps shall also include the cost to reconstruct driveways, driveway matchups, relocation of mailboxes out of driveway wings and any saw-cutting required to facilitate constructing the new driveway and driveway matchup. The Contractor shall pour all new concrete within five (5) calendar days upon commencement of any removals for the above-described work.

Payment for curb and gutter shall be at the Contract unit price per linear foot for the curb height indicated on the plans. If the proposed curb and gutter is to replace existing damaged curb and gutter, then no curb height will be indicated and the Contract unit price per linear foot shall include the cost to reconstruct the curb and gutter to match all the dimensions of the existing curb and gutter at all locations

indicated on the plans. Payment shall also include painting curbs red where existing is red, painting house address numbers on curbs where removed, grinding down roots beneath the curb and gutter, reestablishing curb core where necessary, and the steel reinforcement per the standard drawings, when required. When directed by the Engineer, the Contractor shall remove unsuitable material beneath the curb and gutter and replace with crushed aggregate base. Payments shall be included in “Additional Removal of Existing Deteriorated AC” and “Asphalt Pavement (DGAC) – For Additional Removal Areas”, respectively. The Contractor shall pour all new concrete within three (3) calendar days upon commencement of any removals of curb and gutter adjacent to proposed driveways and/or pedestrian ramps.

Temporary resurfacing shall be required only at times and locations determined by the Engineer during construction. Payment for temporary resurfacing shall be included in the bid item requiring temporary resurfacing in place and shall include full compensation for furnishing, placing, maintaining, removing, and disposing of such temporary materials.

When completing any concrete improvements adjacent to existing asphalt pavement, the Contractor shall repair the open asphalt slot created within five (5) calendar days after commencement of any removals. The cost for utilizing permanent asphalt pavement shall be included in the bid item requiring the open slot repair. At the option of the Contractor, the Contractor may provide temporary asphalt, as described previously, to complete this work, however no additional compensation shall be provided to complete either or both the permanent and/or temporary asphalt work described herein.

When an existing irrigation system is disrupted and/or the existing landscaping is damaged and/or removed to remove and replace any of the existing concrete work described, the Contractor shall repair/modify the existing irrigation system to provide adequate irrigation coverage and replace the existing landscaping, in-kind, within 48 hours after the initial associated disruption and/or removal. Sod shall be utilized to replace any removed and/or damaged grass coverage. No additional compensation will be provided to modify the existing irrigation and/or replace the existing landscaping for areas receiving existing concrete repair as described herein.

314 TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT MARKERS

Striping and pavement markings shall conform to Section 84 “Traffic Stripes and Pavement Markings” of the State Standard Specifications.

Pavement markers shall conform to Section 85 “Pavement Markers” of the State Standard Specifications.

Unless otherwise noted, Thermoplastic paint shall be utilized for the project. All cat-tracking shall be in place within 48 hours from the completion of asphalt overlay and/or rubberized emulsion-aggregate slurry application. Unless otherwise approved by the engineer; once cat-track is complete, a request for cat-track approval shall be forwarded to the project manager or inspector. Contractor shall allow 2 working days for cat-track approval. Once cat-track is approved, striping installation shall commence within 2 working days, except in cases where loop detectors are required or slurry has been installed. In cases where loops are required, loops installation is to commence within 2 working days of

cat-track approval and striping work shall commence within 2 working days of loop install completion. However, in areas where slurry is installed, a minimum of 7 days shall lapse between slurry and striping installation.

The thermoplastic material shall be applied by extrusion method in a single uniform layer. Stencils shall be used when applying thermoplastic material for pavement markings. The pavement surface to which thermoplastic material is applied shall be completely coated by the material and the voids of the pavement surface shall be filled.

If green bicycle lane pavement markings is specified it shall consist of preformed thermoplastic markings. The markings shall be PreMark ViziGrip, or approved equal, and must be a resilient light green color thermoplastic product. The must contain glass beads and abrasives in an alternating pattern. The markings must be resistant to the detrimental effects of motor fuels, lubricants, hydraulic fluids etc. Lines, legends and symbols are capable of being affixed to bituminous and/or Portland cement concrete pavements by the use of the normal heat of a propane torch.

The markings must be capable of conforming to pavement contours, breaks and faults through the action of traffic at normal pavement temperatures. The markings shall have resealing characteristics, such that it is capable of fusing with itself and previously applied thermoplastic when heated with the torch. The markings shall not have minimum ambient and road temperature requirements for application, storage, or handling. The PreMark Vizigrip material must be composed of an ester modified rosin resistant to degradation by motor fuels, lubricants etc. in conjunction with aggregates, pigments, binders, abrasives, and glass beads which have been factory produced as a finished product, and meets the requirements of the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways. The thermoplastic material conforms to AASHTO designation M249-79 (98), with the exception of the relevant differences due to the material being supplied in a preformed state.

The Light Green Pigment color shall be manufactured with appropriate pigment to ensure that the resulting color complies with the Light Green color as specified in the FHWA Memorandum dated April 15, 2011: Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes (IA-14)

If paint (2 coats) is specified it shall consist of painting traffic stripes and pavement markings, including applying glass beads. The material and application of the paint materials shall conform to the provisions of Section 84-3, "Painted Traffic Stripes and Pavement Markings", of the State Standard Specifications.

Temporary pavement delineation, including but not limited to raised flexible reflective tabs and/or reflective adhesion tape, shall be installed and maintained by the Contractor during or between construction stages and operations for the purpose of providing traffic control and public safety. The specific type or method of temporary pavement delineation used by the Contractor shall be approved by the Engineer prior to application. Installation and maintenance of all temporary pavement delineation shall not be considered as "extra work". Payment for temporary pavement delineation shall be considered as included in the Contract price(s) paid for the other Contract items unless specifically identified as a separate Contract item. Temporary and/or permanent pavement delineation performed by the Contractor at the direction of Engineer for reasons or circumstances beyond the Contractor's control (excluding weather related construction delays) shall be considered as "extra work".

When using raised flexible reflective tabs or reflective adhesion tape for temporary pavement delineation along the direction of travel (longitudinal lines), temporary stripes shall be placed on the pavement surface at a 6 inch or 12 inch offset left of the proposed permanent pavement stripe. Prior to the application of the permanent stripe the Contractor shall remove the tabs or tape from the pavement surface. Removals must be coordinated with the Contractor's labor force performing the permanent pavement delineation.

When reflective adhesive tape is used for lane delineation, a minimum of 3-foot strip of tape shall be placed at 12-foot intervals (gaps) regardless of the posted speed for the zone requiring temporary striping. When raised reflective tabs are used for lane delineation, the tab spacing shall not exceed 24 feet. Raised flexible reflective tabs shall not be utilized for limit lines (stop bars) or crosswalks without prior approval of the Engineer.

When temporary pavement delineation is needed on a roadway surface that has been grinded, temporary paint shall be utilized. Said temporary pavement delineation must match the alignment, spacing, color, and paint requirements of the permanent or previous pavement delineations. Contractor must maintain the visibility of the temporary paint and re-apply new coats as deemed necessary by the Engineer.

When temporary pavement delineation is needed on a roadway surface that has been slurried, the Contractor shall not use reflective adhesion tape or temporary paint. The Contractor shall use raised flexible reflective tabs that follow the alignment of the permanent paint. Prior to the application of the permanent stripe the Contractor shall remove the tabs from the pavement surface. Removals must be coordinated with the labor force performing the permanent pavement delineation.

Traffic stripes shall be measured by the linear foot without deduction for gaps in the broken traffic stripes. Striping details having double stripes consisting of two 4-inch-wide yellow stripes separated by a 3-inch-wide gap is measured as a single traffic stripe. Pavement markings shall be measured by the area covered in square feet.

Payment for striping and pavement marking installation shall be made at the respective contract unit prices and shall include furnishing all labor, material, tools, equipment, traffic control, and incidentals necessary to apply the striping and pavement markings as shown on the plans and/or as directed by the engineer.

All striping removals including traffic stripes, markings, legends and other striping details shall be removed by wet sandblasting and then fog sealed if the roadway is not being resurfaced. The fog seal shall conform to Section 302-14 of these Special Provisions. The fog seal shall be used to seal and protect the existing asphalt surface and reduce raveling due to the striping removals. Payment for wet sandblasting and fog sealing shall be included in the Contract price for the item requiring the striping removal and no additional payment shall be made therefore.

Pavement markers shall be placed in conformance with the provisions in Section 85, "Pavement Markers," of the State Standard Specifications. Attention is directed to "Traffic Control System For Moving Lane Closure on Multilane Highways" (Standard Plan T16) of the State Standard Plans regarding the use of moving lane closures during placement of pavement markers. The Contractor shall

furnish the Engineer certificates of compliance for the pavement markers in conformance with the provisions in Section 85-1.01B, "Submittals", of the State Standard Specifications.

Pavement markers associated with striping details shall be included and paid for in the respective unit price paid for the striping detail and no additional payment shall be made therefor. Individual pavement markers, with the exception of the two-way blue reflective markers, not associated with a striping detail shall be measured and paid for by the respective unit price. Full compensation for removing pavement markers, when no longer required, shall be considered as included in the contract unit price paid for striping.

The Contractor shall be required to furnish and install Stimsonite Model 88AB Two-Way Blue Reflective Markers as shown on the City of Riverside Public Utilities Department Standard Drawing CWD-700. Payment for the Stimsonite Model 88AB Two-Way Blue Reflective Markers shall be included in the payment for striping and no additional payment shall be made therefor.

315 ROADSIDE AND STREET NAME SIGNS

315-1 Placement of Roadside Signs. Roadside sign(s) shall include installation of sign panel(s), fastening hardware, back braces, straps and saddle brackets, and frame assemblies for multiple sign panels. A roadside sign includes a traffic sign with 1 or more sign panel(s) attached to a supporting structure. A supporting structure is typically 1 or 2 posts, a signal standard, or street light standard.

The sign must not be chipped or bent. Traffic sign face shall be 3M Diamond Grade DG3 Reflective Sheeting (ASTM XI) with protective graffiti film. All warning signs shall have a fluorescent yellow background and school signs shall have a fluorescent yellow-green background. Sign and/or post installation shall be per City of Riverside Standard Drawing No. 664.

Payment.

- a. A roadside sign consisting of 1 post with attached sign panel(s) is paid for as 1 "Roadside Sign – One Post."
- b. A roadside sign consisting of 2 posts with attached sign panel(s) is paid for as 1 "Roadside sign – Two Posts."
- c. Roadside sign panel(s) attached via strap and saddle bracket method or attached to an existing post is paid for as 1 "Roadside Sign – No Post."
- d. Relocated sign panel(s) onto an existing signal or light standard is paid for as 1 "Relocate Sign – No Post".
- e. Relocated sign panel(s) which require a new post is paid for as 1 "Relocate Sign – One Post."
- f. Sign(s) identified for removal shall include removal of sign panel(s) and post(s)/foundation(s) if applicable, and shall be paid as "Remove Sign."

315-2 Placement of Street Name Signs . Street Name Signs shall include installation of sign panels (both streets), breakaway signpost system if applicable and fastening hardware to provide a complete street name sign unit. The street name sign installation shall be per City of Riverside Standard Drawing No. 662.

Payment.

- a. Street name sign shall consist of street name sign panel(s) (both streets), fastening hardware and breakaway signpost system, as noted on the plan or in the field by the engineer or his representative, shall be paid for as 1 “Street Name Sign.”
- b. Street name sign identified for removal shall include removal of sign panel(s) and post(s)/foundation(s) if applicable, and shall be paid as “Remove Sign.”

END OF PART 3.

PART 7

TRAFFIC SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS

7-1.01 Description. Furnishing and installing and modifying traffic signals, highway lighting, flashing beacons and sign illumination, and payment therefore shall conform to the provisions in Section 86 "Signals, Lighting and Electrical Systems," of the State Standard Specifications and these Special Provisions (See Section 2-5 herein).

Traffic signal and lighting work is to be performed at the following locations:

1. Ottawa Avenue and University Avenue
2. Magnolia Avenue and Farnham Place

7-1.04 Equipment List and Drawing. Equipment list and drawings of electrical equipment and material shall conform to the provisions in Section 86-1.04, "Equipment List and Drawings", of the State Standard Specifications and these Special Provisions. The Caltrans HC-30 form or one similar shall be submitted to the Engineer. Also, see required submittal with the bid proposal.

The controller cabinet schematic wiring diagram and intersection sketch shall be combined into one drawing, so that when the cabinet door is fully open, the drawing is oriented with the intersection. The size of the plan containing said diagram and sketch shall not exceed 30" X 42". The cabinet schematic wiring diagram shall have point-to-point designations. Detector plug, and/or slot and channel (if applicable) designations shall be marked on the intersection sketch.

The Contractor shall furnish two sets of operation and maintenance manuals for all controller units, auxiliary equipment, vehicle detector units, and control units. The maintenance manuals or combined maintenance and operation manual(s) shall be submitted at the time the controller assemblies are delivered to the signal lab located at 8095A Lincoln Avenue, Riverside, for testing or, if ordered by the Engineer, previous to delivery. The maintenance manual shall include, but need not be limited to, the following items:

- (a) Specifications
- (b) Design characteristics
- (c) General operation theory
- (d) Function of all controls
- (e) Troubleshooting procedure (diagnostic routine)
- (f) Block circuit diagram
- (g) Geographical layout of components
- (h) Schematic diagrams

(I) List of replaceable component parts with stock numbers

All equipment and material that the Contractor proposes to install shall conform to these specifications and the contract plans. A list of substitute equipment and/or materials along with a written descriptive summary, describing the functions of the components, which the Contractor proposes to install, shall be submitted along with Contractor's bid proposal. The list shall be complete as to the name of manufacturer, size, and identifying number of each item. The list shall be supplemented by such other data as may be required including reference to certified Intertek equipment. Substitution shall not be allowed for products certified or listed in the Intertek LED Traffic Signal Modules Certification Program (www.intertek-etlsemko.com/ledtraffic) or for products governed by the State of California Department of Transportation Pre-Qualified Products List (QPL). Refer to Section 7-3 and 7-4 of these Special Provisions.

If these Special Provisions specify manufacturers' names along with the term "City approved equal", the following shall apply:

If the Contractor proposes to furnish equipment and/or material other than that specified in the Contract Special Provisions, a sample of the item(s) must be submitted to the Engineer to determine its equality. The item(s) must be reviewed prior to the beginning of construction and will not be accepted for installation unless approved by the Engineer. Judgment shall be based on intended use, maintenance, quality and interchangeability, if applicable.

In all cases, the judgment of the Engineer shall be final as to whether substitute equipment and/or materials, recommended by the Contractor, conform to the intent of these specifications and are acceptable for use.

7-1.06 Maintaining Electrical Systems. Traffic signal system shutdowns shall be limited to periods between the hours of 8:30 a.m. and 3:30 p.m., or as specified by the Engineer.

In lieu of 30" Stop Signs, 36" Stop Signs are required.

The traffic signal inspector shall be notified 72 hours prior to a traffic signal shut down and shut downs shall not occur on Fridays or on a day before a holiday unless prior authorization is obtained.

7-2.04 Standards, Steel Pedestals and Posts. All standards shall be installed 2" above the finished surface (grade). The void between the base plate and surface shall be filled with dry packed concrete conforming to the provisions of the fourth paragraph of Section 86-2.03 of the Standard Specifications.

When a standard or mast arm is relocated, new nuts, bolts, cap screws and washers shall be provided by the Contractor, and shall conform to the requirements for hardware used with new standards.

All Type 1A standards shall be aluminum. Anchor bolts, bolt circle, threads, nuts and washers shall conform to the Standard Plans. Anchor bolt covers are required.

7-2.05 Conduit. Conduit shall conform to the provisions in Section 86-2.05, "Conduit" of the State Standard Specifications and these Special Provisions.

Split-bolt or set screw couplings are not allowed.

Loop stub-outs shall be Schedule 40 PVC or better. All other conduit shall be Type 1 rigid steel, as specified in the Standard Specifications.

In lieu of installing conduit by jacking or drilling, as provided for in Section 86-2.05C, "INSTALLATION" of the State Standard Specifications, conduit shall be placed in paved roadways by the trenching method in accordance to the provisions of said Section 86-2.05C, except that 376 pounds of cement per cubic yard will be used in lieu of the 564 specified. A minimum of 12" cover shall be maintained over top of conduit and the Trench Backfill shall be per City of Riverside Standard Drawing No. 453. Conduit shall be type 1.

Insulated bonding bushings will be required on metal conduit.

After conductors have been installed, the ends of conduits terminating in pullboxes and controller cabinets shall be sealed with an approved type of sealing compound.

The Contractor shall be responsible for modifying (includes directing spray away from cabinet, if necessary), and repairing existing sprinkler system(s) in the parkway, if said systems interfere with conduit and appurtenant installations. The property owner(s) shall be notified of these alterations and requested to test the facility before the Engineer will accept this work.

7-2.06 Pullboxes. Pull boxes shall conform to the provisions in Section 86-2.06, "Pull boxes" of the State Standard Specifications and these Special Provisions.

Pull boxes shall be No. 6 unless otherwise indicated on plans. All pull boxes shall be precast of reinforced Portland cement concrete (PCC).

Any pull box in which four (4) or more conduits terminate shall be # 6 or larger.

All pull boxes to be installed shall be surrounded by a 6" wide x 3 1/2" to 4" deep concrete pour, excepting those placed within improved PCC or asphalt concrete sidewalk area.

Pull boxes not protected by PCC or asphalt concrete curb or located at any point in medians or subjected to vehicular traffic shall be State of California, Department of Transportation traffic pull box (Type T) and installed per ES-8.

Non-traffic bearing pull box lids for No. 3 1/2 and No. 5 shall be PCC. Composite reinforced fiber lids shall be used for No. 6 pull boxes. Composite reinforced fiber lids are subject to City approval.

All new pull box covers shall be marked "Traffic Signal".

The Contractor shall grout any existing pull boxes that are to remain in place and are not grouted with material specified in Section 86-2.06 of the State Standard Specifications. The Contractor shall excavate within the pull box, to proper depth prior to grouting.

7-2.08 Conductors, Cable, and Wiring. Conductors and wiring shall conform to the provisions in Section 86-2.08, "Conductors" and Section 86-2.09, "Wiring" of the State Standard Specifications and these Special Provisions.

In lieu of individual conductors for vehicle and pedestrian signals and pedestrian push buttons, signal cable shall be installed and shall conform to the provisions of Section 86-2.08D, "Signal Cable" of the State Standard Specifications. Installation shall be as follows:

1. A 12-conductor cable shall be installed from the cabinet to each pole unless otherwise indicated on the plan(s).
2. A 3-conductor cable (pedestrian push button) shall also be installed from the cabinet to each pole. An additional 3-conductor cable must be provided if two pedestrian push buttons are located on the same pole.\
3. A vehicle preemption cable shall be installed from the cabinet to the respective pole. An additional preemption cable shall be installed if two detectors are located on the same pole.
4. No splices will be allowed for the installation of the conductors for Items 1, 2, and 3 above.
5. Each conductor and cable shall be identified in the controller cabinet.
6. Other required cables, detectors and interconnect, and conductors for luminaires, I.I.S.N.S., vehicle preemption and signal service shall be installed as indicated in the Conductor Schedule.
7. Conductor identification for signal phasing shall be as directed in the field by the Traffic Engineer or his representative.

The third paragraph in Section 86-2.08, "Conductors" of the State Standard Specifications is amended to read:

The Contractor shall be responsible to install the number of conductors and/or cable(s) needed to operate the electrical system(s). Omissions in the conductor schedule or unnumbered conduit runs shall not constitute "Extra Work". This also pertains to conductors for future phases indicated on the plan(s) for installation.

Conductors for each inductive detector loop shall be Type 2.

If a “C” shaped compression connector is used for splicing, the conductors shall also be soldered.

Splicing for signal modifications as specified in Subsection 86-2.09D, “Splicing and Terminations,” of the State Standard Specifications will not be allowed unless otherwise indicated on the contract plan(s).

For splicing commons, the ends of the conductors shall be crimped and soldered to secure connections.

The minimum insulation thickness, at any point, for USE, RHH or RHW wire shall be 1.0mm for conductor sizes No. 14 to No. 10, inclusive, and 1.3 mm for No. 8 to No. 2, inclusive. The minimum insulation thickness, at any point, for Type THW and TW wires shall be 0.69 mm for conductor sizes No. 14 to No. 10, inclusive, 1.02mm for No. 8 and 1.37mm for No. 6 to No. 2 inclusive.

Service conductors for traffic signal systems shall be No. 6 AWG, unless otherwise noted on plan. All service conductors shall be continuous between controller and service point, and no splices will be allowed.

Wire for multiple street lighting systems shall be rated for 600-volt operation and shall have black polyvinyl chloride insulation.

Signal Interconnect Cable. Signal Interconnect Cable (SIC) shall be in accordance with the provisions of Section 86-2.08E, “Signal Interconnect Cable”, of the State Standard Specifications except that conductors shall be 19 gauge AWG solid twisted pairs; the grounding conductor is not required. A sample of SIC and splicing material to be used shall be submitted to the Engineer prior to installation

Unless otherwise indicated on the plan(s), six pair interconnect is required.

Notice shall be given, 48 hours in advance, to the City prior to any splicing. All final splicing shall be done in the presence of the Engineer or his representative.

FUSED SPLICE CONNECTORS. Fused splice connectors as specified in Section 86-2.095, “Fused Splice Connectors”, of the State Standard Specifications will be required; the fuse shall be rated at 10 amperes.

7-2.10 Bonding and Grounding. Bonding and grounding shall conform to the provisions in Section 86-2.10, “Bonding and Grounding”, of the State Standard Specifications and these Special Provisions.

Equipment grounding conductors will not be required in conduit containing loop lead-in cables only.

7-2.11 Service. Service shall conform to the provisions in Section 86-2.11, “Service”, of the State Standard Specifications and these Special Provisions.

The contractor shall be responsible to furnish a TV1 signal mount for all 1A service mounts. This shall be delivered to the signal maintenance shop at 8095A Lincoln Avenue, Riverside, CA for fabrication.

New signal service shall be installed by the Contractor in accordance to the appropriate Std. Dwg.; contact the City Public Works Department, 951-782-5688, at least four weeks in advance for processing the request for service connection(s).

THE CITY WILL FURNISH ALL CIRCUIT BREAKERS AND HOUSING FOR ALL CITY CONTRACTS.

7-2.14 Testing. Testing shall conform to the provisions in Section 86-2.14, “Testing”, of the State Standard Specifications and these Special Provisions.

The cabinet and controller and related equipment, including a battery back-up system shall be delivered to the signal maintenance shop at 8095A Lincoln Avenue, Riverside, CA for testing 20 working days prior to installation in the field.

No testing of the cabinet or equipment will start until all of the equipment is delivered to the signal maintenance shop.

7-2.16 Painting. Painting shall conform to the provisions in Section 86-2.16, “Painting”, of the State Standard Specifications and these Special Provisions.

For controller cabinet, see Sec. 7-3 of these Special Provisions.

7-3 CONTROLLER UNITS, CABINETS AND AUXILIARY EQUIPMENT

7-3.1 Solid State Traffic Actuated Controllers. Solid-state traffic actuated controller units, cabinets, and auxiliary equipment shall conform to the provisions in Section 86-3, “Controller Assemblies”, of the State Standard Specifications and these Special Provisions.

When the plan sheets and/or Special Provisions call for special functions, features, future detector loops, or additional future phasing, all necessary cabinet wiring, connecting cables, support bases, phase timing modules, signal load units, circuitry, and other necessary equipment shall be provided to perform the future phasing, detections, and special functions and features.

MODEL 2070 CONTROLLER ASSEMBLY

The cabinet, Model 332, shall be in accordance with the provisions of Section 86-3.03, “Model 170 and Model 2070 Controller Assemblies”, of the State Standard Specifications and these Special Provisions. The controller assembly shall be a McCain 2070 or approved equal.

The Type 2070 controller assembly shall consist of a Model 2070 controller unit,

completely wired Model 332 controller cabinet, Model LMD222 solid state output inductive loop detector sensor units (See Sec. 7-6 of this PART 7), Model 242 isolators, and Model 210ECL conflict monitor. Model 2070-6B dual 1200 baud modem, flasher units, and other equipment required to provide a complete control system shall be furnished and installed. The 332 cabinet shall incorporate a PDA2 power distribution assembly. The software program shall be Bi Trans Systems, Inc. No. 2033 or the latest version thereof.

If the contract plan(s) indicates 2 ea. Model 2070 controller units to be housed in 1 ea. 332 cabinet, one unit shall serve as the master control for coordinated traffic operations between signalized intersections. The cabinet shall be completely wired including all appurtenances for this operation. All ports for system communications, including telephone, shall be provided. The system master unit shall have 4 ports.

On the PDA2 power assembly, wire termination on the backside of T1, T2 and T4 terminal blocks shall be soldered connections. Crimp terminals fastened with screws will be rejected.

Crimp terminals on connecting cables between input files and input panel terminal blocks shall be crimped and soldered.

All output files shall be completely wired to monitor RED failure.

For load switches, Pin 11 on all load switch sockets shall be wired to AC-. Individual indicator lamps shall be provided to monitor inputs and outputs.

All load switch sockets shall have individual wire terminals; printed circuit boards will not be allowed.

Monitoring device channels 9 and 10 shall be wired in order that Ped. Yellow monitoring or unterminated wires may be selected by a connector assembly.

The input file shall be wired to accept the pre-empt module required for vehicle pre-emption specified elsewhere in these Special Provisions. Also, see "Vehicle Pre-emption" else wherein this section for other cabinet requirements(s). Green monitoring harnesses for 3M brand opticom modules will be factory installed.

Cabinet finish (interior and exterior) shall be anodic coating as specified in Section 86-3.04A, "Cabinet Construction", of the State Standard Specifications.

The cabinet features shall include push buttons for manual actuation of all vehicular and pedestrian phases. The buttons shall be mounted on the front door panel and enclosed in a suitable metal housing. The cabinet shall also be provided with a fluorescent lamp for interior lighting. Said lamp shall be mounted on the fan plenum and illuminate both front and rear of the cabinet. Light switches shall be provided for both doors.

The controller cabinet shall be equipped with a document drawer/shelf.

Two (2) complete manuals and four (4) complete cabinet wiring diagrams shall be supplied.

Attention is directed to “TESTING” included elsewhere in these special provisions.

Turn On

The Contractor shall arrange to have a signal technician, qualified to work on the controller and employed by the controller/equipment manufacturer or its representative, present at the time the controller/equipment is turned on. This includes when an existing traffic signal system is modified. Traffic signal turn ons shall not be scheduled on Fridays or the day before a holiday unless prior authorization is obtained.

Standards (poles) shall not be placed on foundations until five (5) working days before scheduled turn on and the service has been energized.

No Traffic Signal System shall be turned on until all equipment and signage are installed.

The intersection must be cleaned and swept completely prior to the traffic signal turn-on. Clean up includes but is not limited to:

Signal poles, signal mast arms, signal heads, signal head visors, signal head lenses, traffic safety lights, controller cabinet, battery back-up cabinet, signs, side walks, curbs, gutters, intersection within 150m (500') in all directions, etc.

Vehicle Pre-emption. Vehicle pre-emption shall conform to the applicable provision of the Standard Specifications and these Special Provisions. New vehicle pre-emption shall be 100% compatible with existing City of Riverside vehicle pre-emption equipment.

The pre-emption system shall be able to identify certain designated vehicles as high priority (emergency types such as fire, police, etc.) and low priority (transit types) via a transmitted optical signal and process for activation of the appropriate phase green or hold a displayed phase green. Pre-set codes in the systems processor (phase selector) shall recognize each vehicle's priority and its class (fire, bus, etc.). The system shall operate on a first come, first served basis except that high priority vehicles shall take precedence over low priority vehicles.

Vehicle Pre-emption equipment/component parts shall be warranted by the manufacturer in a documented system-protection plan for the first five (5) years from the date of shipment from the manufacturer. Furthermore, said equipment shall be covered for an additional five (5) years of maintenance, repair or replacement at a fixed charge for a total of ten (10) years of product protection coverage.

A complete intersection vehicle pre-emption system shall be installed at the intersection(s) as indicated on the contract plan(s) and shall consist of optical detectors (signal receiver(s) mounted on the indicated signal poles' mast arm (the exact position to be determined

in the field.); an encoded phase selector within the controller cabinet to activate the phase green; and all cabinet and field wiring to provide an operating system.

The optical detector shall be housed in a weatherproof high impact non-corrosive fabricated material; mounting hardware shall also be non-corrosive. Said detector shall incorporate a built-in terminal strip for wire connections.

The optical detector shall have an adjustable responsive range up to 2,500 feet from a discrete optical light source; said discrete light source shall be identified for the proper preemption. Operating ambient temperature range shall be -30 degrees C to +60 degrees C. To achieve optimum operation, the appropriate detector to receive the required optical inputs and electrical outputs (to phase selector) shall be as recommended by the manufacturer.

The phase selector unit provided shall be for the Model 170E, 170ATC-CF, 2070 or a N.E.M.A. controller as indicated on the plan(s). Installation shall not cause cabinet modification or disrupt normal traffic signal operation unless a valid transmittal is received from an optical detector. The phase selector shall be a two-channel device and provide the following functions and features:

Functions:

Only one priority control output (phase green) shall be active at a time.

High priority signals shall override low priority signals in the same channel or from channel to channel.

The unit shall have three (3) levels of discriminating the signal.

All valid signals shall be logged and stored in non-volatile memory; data shall be maintained when power is removed. The following information shall be stored:

- a. Class
- b. Code
- c. Priority
- d. Direction
- e. Call duration
- f. Final greens at end of call
- g. Duration of final greens displayed
- h. Time call ended (real time)
- I. If vehicle passed through intersection

Features:

A port (RS 232 interface) for remote communication via modem.

A test switch for each channel.

A pilot light and call status indicator lights.

Error diagnostic capabilities.

The detector cable shall be a shielded, 3-conductor 20-gage cable with a drain wire and shall conform to the detector and selector manufacturer's recommendation.

7-4 SIGNAL FACES AND SIGNAL HEADS

Signal faces and signal heads shown on plans and the installation thereof shall conform to the Intertek LED Traffic Signal Modules Certification Program and shall include the ETL Verified Label.

Signal auxiliary equipment necessary for the installation of the signal faces and signal heads shall conform to Section 86-4, "Traffic Signal Faces and Fitting", of the State Standard Specifications and these Special Provisions.

The contractor shall cover all the non-functioning vehicle heads and pedestrian heads utilizing signal head covers which are specially fabricated for that purpose. Covers shall be designed to be easily installed by hand without the use of tools. Signal head cover shall be made from outdoor grade, weather resistant material of a tan color. The size of the cover shall closely fit and encapsulate the applicable signal head with stretch material. The cover shall be secured in place with bolt snaps attached to elastic straps. The straps shall be permanently attached to the cover. Cardboard and bags shall not be allowed to cover signal heads.

Signal section housings, backplates, visors, etc. shall be metal; plastic parts are not acceptable.

One new complete signal or pedestrian indication shall be provided to the City for each new or modified traffic signal system installed. Pedestrian indication shall be equipped with an audible pedestrian unit ("CUCKOO" and "PEEP-PEEP" sound) mounted within the housing of the pedestrian signal on the walk symbol side, see section Audible Pedestrian Traffic Signal for additional details. Contractor shall contact the Traffic Signal Shop at (951) 351-6098 to make a determination on the additional indication to be supplied. The indication may be a complete MAS, SV-1-T, TV-1-T, or SP-1-T (with countdown module and internal audible). The indication(s) shall be delivered to the Traffic Signal Shop located in City Yard, 8095A Lincoln Avenue, prior to any traffic signal equipment installation.

New signal heads, vehicular and pedestrian, and appurtenant framework and terminal compartments shall be furnished with a powder coating finish. Prior to application of the powder coating, pre-treatment processing shall be chronologically as follows: (1) degreasing, (2) water rinse, (3) an iron phosphate bath, (4) water rinse and (5) seal bath.

Application of the powder coating shall consist of a dry off cycle at 300 degrees to 400

degrees F for a minimum of 10 minutes, followed by the electrostatic application of said coating at 75,000 to 90,000 volts. The final process shall be a heat treatment of 20 minutes at 400 degrees F.

Acceptance of powder-coated signals that do not meet the processing requirements must be by written approval of the Traffic Engineer. It will be the burden of the Contractor to demonstrate that the non-conforming process is equal to or exceeds the requirements specified herein.

7-4.02 5-Section Right-Turn Overlap Indication Contractor shall install a 1200-ohm ceramic resistor for each right-turn arrow (green and yellow) face. Contractor shall omit installation of the resistors if two (2) 5-section signal heads (near and far side) are required for the right-turn overlap operations.

7-4.04 Backplates. Sections shall be joined using: (1) aluminum rivets and washers; or (2) machine screws #8 or #10 X 32 with washer, lock washer and nut; or (3) a combination of (1) and (2). Rivets, washers, and nuts shall be painted to match backplate. Note; all fastener holes in the backplate shall contain a fastener.

Backplates shall be secured to the signal heads as indicated in the Standard Plans, with the added requirement that the screws shall also be TRUSS types; all screw holes for this purpose must contain screws. The Traffic Engineer must approve any deviation from these requirements.

All bolts, nuts, screws and washers shall be either brass, hot dipped galvanized or stainless steel for mounting pedestrian signals, and traffic signals to aluminum standards, pedestrian posts, and steel standards; except, that stainless steel shall be used for push buttons and push button signs.

Visors. All visors shall be tunnel, except cut-off types. Attachment screws for visors shall be truss head type No. 10 machine screws. Holes for visor attachment screws shall be tapped for machine screw threads. In addition, if a common hole is used for visor and lens attachment, the screws shall be of sufficient length not to cause BOTTOMING OUT. The downward tilt for all visors shall not exceed 3 degrees.

Visors shall be approximately 12" in length 12" lens, unless otherwise noted on plans.

All signal faces shall be provided with 12-inch sections.

The signal heads furnished for this project shall be supplied with the energy saving L.E.D. indications. These L.E.D. indications shall consist of a hermetic unit containing the lens, power assembly and diodes. All L.E.D. modules shall be certified in the Intertek LED Traffic Signal Modules Certification Program and shall include the ETL Verified Label. The modules shall be warranted for a minimum of five years from date of installation against failure. One complete signal head shall be delivered to the signal maintenance shop

for approval and testing prior to field installation. All modules must be certified in the Intertek LED Traffic Signal Modules Certification Program and be labeled with the ETL Verified Label.

All standards shall be drilled for mounting signal hardware and equipment. The use of signal mounting clamps is prohibited.

All terminal compartments, post-top adapters, and MAS mountings, etc., shall be bronze. All other fittings shall be cast iron.

The terminal strip shall be a 12-position pressure type. In addition, the void (hole) and securing mechanism (metal strip and screw) shall be designed to easily accept the insertion of the conductors. The metal contact-securing strip shall have a #10x24 stainless steel screw for pressure adjustment. This void and securing mechanism must easily accept 2-No. 10 conductors and is subject to the Engineer's approval. Marathon Electric Model No. 1012 or Traffic Signal Hardware Model No. 0567 meets these requirements.

The top head gasket for all signal and pedestrian heads shall be neoprene and shall have a minimum thickness of 1/8 inch. A metal washer of the same diameter size shall be placed on the top of the neoprene gasket to secure and provide a watertight fitting.

When the plans require the relocation of vehicular signals, the Contractor shall provide the necessary framework and modify the existing to accommodate either the circular tapered pole or the octagon concrete pole.

McCain, Peek, Automatic, or Alusig shall manufacture signal heads furnished for this project or a City approved equal. Refer to Sec. 7-1.04 of this PART 7 regarding "City approved equal".

All signal mounting framework shall incorporate the use of 1 1/2" lock nipples.

7-4.05 Pedestrian Signals. Pedestrian signals shall conform to the provisions in Section 86-4.06, "Pedestrian Signal Faces", of the State Standard Specifications and these Special Provisions.

New pedestrian signals shall be McCain, ICC or City approved equal, and shall include the Z-crate front screen. The pedestrian signal shall be a countdown type, with a solid filled hand on the left-hand side of the pedestrian signal and the numerical "countdown" indication on the right-side of the pedestrian signal.

New pedestrian heads shall use a single LED module for both symbols. Modules shall have filled LED displays, outline only is not acceptable. Modules shall be warranted for a minimum of five years against failure. All modules shall be listed in the Intertek LED Traffic Signal Modules Certification Program (www.intertek-etlsemko.com/ledtraffic) and include the ETL Verified Label.

If the contract plans and/or these special provisions indicate the installation of auditory pedestrian signals, refer to Audible Pedestrian Traffic Signal herein.

When the plans require the relocation of pedestrian indications, the Contractor shall provide the necessary framework and modify the existing to accommodate either the circular tapered pole or the octagon concrete pole.

Accessible Pedestrian Signal (APS). The audible pedestrian signal shall be Polara EZ Comm Navigator 2-Wire (EN2) Model or City approved equal. The system shall include a Central Control Unit and Interconnect Board in the traffic signal cabinet. The system shall be programmed by the contractor and include the audible WALK message, audible locating tone, audible “chirp” and “cuckoo” sounds, and street names.

Audible Pedestrian Traffic Signal. The audible pedestrian signal shall supplement the visible “walk symbol” indication, and shall be mounted within the housing of the pedestrian signal on the walk symbol side. Output (electric circuit) shall be generated from the field conductors to the associated pedestrian signal head.

Audio output shall be adjustable. Additionally, audio output may be self-switching, from an adjustable low to an adjustable high, and shall be responsive to external ambient noise. Directional audio outputs for right-of-way designations shall be represented by 2 distinct bird chirping sounds. The northerly and southerly phase(s) shall utilize a “CUCKOO” sound. The easterly and westerly phase(s) shall utilize the “PEEP-PEEP” sound.

Operation parameters shall be:

115V AC +/- 15%, 60 Hz, 3 watts
-20 degrees C to 70 degrees C temperature range
90 dB/watts at 1 meter (max.) output

7-5 BATTERY BACK-UP SYSTEM

Battery Back-up System shall conform to the applicable provision of the Standard Specifications and these Special Provisions. New Battery Back-up System shall be 100% compatible with existing City of Riverside Battery Back-up equipment.

The Battery Back-up System (BBS) shall be a Dimension Model ADI-24M11-WBE or a Clary Corporation SP1250PD-N (Plus) Traffic UPS or “City approved equal”. The BBS must provide a battery back-up/uninterruptible power system and shall consist of three (3) major components: the Electronics Module, the Power Interface Module with automatic transfer circuitry for generator input, and the Battery System consisting of 6 Outpost OPB-1241, or approved equal batteries. The system must be capable of operating in two (2) modes: Flash mode (red LEDs) and full normal operation mode (all LED indications). System shall include a timing circuit allowing automatic switching from full operation to all red flash at a selectable time interval. The BBS shall have two (2), continuously conditioned, 5- 15 receptacles for connecting the controller and other sensitive equipment.

If these Special Provisions specify manufacturers' names along with the term "City approved equal", the following shall apply:

If the Contractor proposes to furnish equipment and/or material other than that specified in the Contract Special Provisions, a sample of the item(s) must be submitted to the Engineer to determine its equality. The item(s) must be reviewed prior to the beginning of construction and will not be accepted for installation unless approved by the Engineer. Judgment shall be based on intended use, maintenance, quality and interchange ability, if applicable.

In all cases, the judgment of the Engineer shall be final as to whether substitute equipment and/or materials, recommended by the Contractor, conform to the intent of these specifications and are acceptable for use.

This specification establishes the minimum requirements for a complete emergency battery backup system for use with Light Emitting Diode (LED) Traffic Signal Modules. The BBS shall include, but not be limited to the following: Inverter/Charger, Power Transfer Relay, batteries, a separate manually operated non-electronic Bypass Switch (See Figure 1 – BBS Block Diagram) and all necessary hardware and interconnect wiring. The BBS shall provide reliable emergency power to a traffic signal system (Vehicle and Pedestrian Traffic) in the event of a power failure or interruption.

The BBS shall be capable of providing power for full run-time operation for an "LED-only" intersection (all colors: red, yellow, green and pedestrian heads) or flashing mode operation for an intersection using Red LED's.

The BBS shall be designed for outdoor applications, in accordance with the Caltrans Transportation Electrical Equipment Specifications (TEES), dated August 16, 2002, Chapter 1, Section 8 requirements.

7-5.01 Operation

BBS shall be compatible with Caltrans Model 332 or 333JP Cabinets, Model 170E Controllers, Model 170ATC-CF, or Model 2070 Controllers and cabinet components for full time operation.

The BBS shall provide a minimum two (2) hours of full run-time operation for an "LED-only" intersection (minimum 700W/1000VA active output capacity, with 80% minimum inverter efficiency). The BBS shall have at least 4000 watts of peak power.

The maximum transfer time allowed, from disruption of normal utility line voltage to stabilized inverter line voltage from batteries, shall be 65 milliseconds. The same maximum allowable transfer time shall also apply when switching from inverter line voltage to utility line voltage.

The BBS DC system voltage shall be 24, or 72 Vdc.

The BBS shall provide the user with 3-sets of normally open (NO) and normally closed (NC) single-pole double-throw (SPDT) dry relay contact closures, available on a panel-mounted terminal block, rated at a minimum 120V/1A, and labeled so as to identify each contact. For typical configuration, see Figure 3(b).

The BBS shall provide the user with 3-sets of normally open (NO) and normally closed (NC) single-pole double-throw (SPDT) dry relay contact closures, available on a panel-mounted terminal block, rated at a minimum 120V/1A, and labeled so as to identify each contact. For typical configuration, see Figure 3(b).

The first set of NO and NC contact closures shall be energized whenever the unit switches to battery power. Contact shall be labeled or marked "On Batt."

The second set of NO and NC contact closures shall be energized whenever the battery approaches approximately 40% of remaining useful capacity. Contact shall be labeled or marked "Low Batt."

The third set of NO and NC contact closures shall be energized two hours after the unit switches to battery power. Contact shall be labeled or marked "Timer."

Operating temperature for both the inverter/charger, power transfer relay and manual bypass switch shall be $-37\text{ }^{\circ}\text{C}$ to $+74\text{ }^{\circ}\text{C}$.

Both the Power Transfer Relay and Manual Bypass Switch shall be rated at 240VAC/30 amps, minimum.

The BBS shall use a temperature-compensated battery charging system. The charging system shall compensate over a range of 2.5 – 4.0 mV/ $^{\circ}\text{C}$ per cell.

The temperature sensor shall be external to the inverter/charger unit. The temperature sensor shall come with 3 meters (9'10") of wire.

Batteries shall not be recharged when battery temperature exceeds $50\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$.

BBS shall bypass the utility line power whenever the utility line voltage is outside of the following voltage range: 100VAC to 130VAC ($\pm 2\text{VAC}$).

When utilizing battery power, the BBS output voltage shall be between 110 VAC and 125 VAC, pure sine wave output, = 3% THD, 60Hz $\pm 3\text{Hz}$.

BBS shall be compatible with Caltrans Model 332A Cabinets, Model 170ATC-CF Controllers, Model 2070 Controllers and cabinet components for full time operation.

In cases of low (below 98VAC) or absent utility line power, when the utility line power has been restored at above $105\text{ VAC} \pm 2\text{ VAC}$ for more than 30 seconds, the BBS shall transfer from battery backed inverter mode back to utility line mode.

In cases of high utility line power (above 132VAC), when the utility line power has been restored at below 125VAC \pm 2 VAC for more than 30 seconds, the BBS shall transfer from battery backed inverter mode back to utility line mode.

BBS shall be equipped to prevent a malfunction feedback to the cabinet or from feeding back to the utility service.

BBS shall have lightning surge protection compliant with IEEE/ANSI C.62.41.

BBS shall be equipped with an integral system to prevent the battery from destructive discharge and overcharge.

In the event of inverter/charger failure, battery failure or complete battery discharge, the power transfer relay shall revert to the NC (and de-energized) state, where utility line power is connected to the cabinet.

Recharge time for the battery, from “protective low-cutoff” to 80% or more of full battery charge capacity, shall not exceed twenty (20) hours.

The Battery Backup System must be able to shutdown to protect against internal damage in the event of an overload at its output.

7-5.02 Mounting / Configuration

2.1 General

Inverter/Charger Unit shall be shelf-mounted or rack-mounted.

Power Transfer Relay and Manual Bypass Switch shall be mounted on the 332 cabinet standard Electronic Industries Association (EIA) rail.

All interconnect wiring shall be provided between Power Transfer Relay, Bypass Switch and Cabinet Terminal Service Block and shall be no less than 3 meters (9’10”) of UL Style 1015 CSA TEW with the following characteristics:

1. AWG Rating: 10 AWG
2. Stranding: 105 strands of 30 AWG tinned copper
3. Rating: 600 V, 105 °C, PVC Insulation

Relay contact wiring provided for each set of NO/NC relay contact closure terminals shall be 3 meters (9’10”) of UL Style 1015 CSA TEW 18 AWG wire, same ratings as above, except 16 strands of 30 AWG tinned copper.

All necessary hardware for mounting (shelf angles, rack, etc) shall be included in the bid price of the BBS. A minimum of 6 bolts/fasteners shall be used to secure swing-trays to the 332 or 333JP Cabinet standard EIA 19” (482.6mm) rack. All bolts/fasteners and washers shall meet

the following requirements:

1. Screw type: Pan Head Phillips machine screw
2. Size and Thread pitch: 10-32
3. Material: 18-8 stainless steel (Type 316 stainless steel is acceptable as an alternate.)
4. Washer: Use one flat washer (18-8 stainless steel) under the head of each 10-32 screw (provided that the screws are properly tightened, lock washers are unnecessary.)
Number of screws per hinge bracket: Minimum of six (6) screws per hinge bracket spaced evenly along bracket, with one screw near each end.

2.3 External Cabinet

Inverter/Charger, Power Transfer Relay and manually operated Bypass Switch shall fit inside a typical fully equipped Caltrans Model 332 or 333JP Cabinet that includes one Model 170E, 170ATC-CF or 2070 controller.

Batteries shall be housed in a NEMA 3R rated cabinet mounted to the side of the Model 332 Cabinet (see Figure 5 for details). This external cabinet shall conform to TEES, August 16, 2002 Chapter 7, Section 2-Housings for the construction and finish of the cabinet.

Batteries shall be mounted on individual Shelves.

Four shelves shall be provided. There shall be a minimum of 304.8mm (12") clearance between shelves. Each shelf shall be a minimum of 263.65mm (10.38") X 635.0mm (25"), and capable of supporting a minimum of 57kg (125 lbs.)

The external battery cabinet shall mount to the Model 332 Cabinet with a minimum of eight bolts. (See Figure 5)

The dimensions of the external battery cabinet shall be as shown in Figure 5.

The bottom shelf shall be removable.

The external battery cabinet shall be ventilated using louvered vents, filter, and one thermostatically controlled fan as per TEES Chapter 7 Section 2-Housings.

External battery cabinet fan shall be AC operated from the same line output of the Manual Bypass Switch that supplies power to the 332 Cabinet.

The external battery cabinet shall have a door opening to the entire cabinet. The door shall be attached to the cabinet using either a continuous stainless steel piano hinge or four, two-bolts per leaf, hinges as per TEES Chapter 7 Section 2. The door shall use a padlock clasp or latch and lock mechanisms as described in the TEES, in order to lock the door.

The external cabinet shall come provided with all bolts, washers, nuts and cabinet-cabinet coupler fittings provided, necessary for mounting the external cabinet to the 332 Cabinet.

7-5.03 Maintenance, Displays, Controls and Diagnostics

The BBS shall include a front panel alpha numeric LCD displays to allow reading of status, alarms, and 100 time stamped first in first out event logs. The unit shall be programmable from the front panel and have eight sets of signal relays that are each individually settable to 45 different criteria such as (system statuses alarms, battery voltage, time on battery, temperature...). The unit shall be capable of accepting an optional IP addressable interface. All logs shall be downloadable. The unit must continuously regenerate the output AC voltage and accept low cost generators and quasi-square wave inputs without switching to battery.

The BBS shall include a display and /or meter to indicate current battery charge status and conditions.

The BBS shall provide voltmeter standard probe input-jacks (+) and (-) to read the exact battery voltage drop at the inverter input.

The BBS shall include a 0 to 100% battery capacity LED indicator.

The BBS shall have lightning surge protection compliant with IEEE/ANSI C.62.41.

The BBS shall be equipped with an integral system to prevent battery from destructive discharge and overcharge.

The BBS and batteries shall be easily replaced with all needed hardware and shall not require any special tools for installation.

The BBS shall include a front-panel event counter display to indicate the number of times the BBS was activated and a front-panel hour meter to display the total number of hours the unit has operated on battery power. Both meters shall have push button resets.

Manufacturer shall include a set of equipment lists, operation and maintenance manuals, and board-level schematic and wiring diagrams of the BBS, and the battery data sheets. Manual shall conform to TEES August 16, 2002, Chapter 1, Section 1.2.4.2.

7-5.04 Battery System

Individual batteries shall be 12V type, 65 amp-hour maximum, and shall be easily replaced and commercially available of the shelf.

Batteries used for BBS shall consist of 4 to 8 batteries with a cumulative minimum rated capacity of 240 amp-hours.

Batteries shall be deep cycle, sealed prismatic lead-calcium based AGM/VRLA (Absorbed Glass Mat/ Valve Regulated Lead Acid).

Batteries shall be certified by the manufacturer to operate over a temperature range of –

25 °C to +74 °C.

The batteries shall be provided with appropriate interconnect wiring and corrosion-resistant mounting trays and/or brackets appropriate for the cabinet into which they will be installed.

Batteries shall indicate maximum recharge data and recharging cycles.

7-5.05 Battery Harness

Battery interconnect wiring shall be via two-part modular harness.

Part I shall be equipped with red (+) and black (-) 30.48 cm (12") cabling that can be permanently connected to the positive and negative posts of each battery. Each red and black pair shall be terminated into an Anderson style Power Pole connector or equivalent.

Part II shall be equipped with the mating Power Pole style connector for the batteries and a single, insulated Power Pole style connection to the inverter/charger unit. Harness shall be fully insulated and constructed to allow batteries to be quickly and easily connected in any order to ensure proper polarity and circuit configuration.

Power Pole connectors may be either one-piece or two-piece. If a two-piece connector is used, a locking pin shall be used to prevent the connectors from separating.

The length of the battery interconnect harness (Part II) shall be a minimum of 152.4 cm (60") from the Inverter/Charger plug to the first battery in the string. The lateral length of the harness between battery connectors shall be a minimum of 30.48 cm (12").

All battery interconnect harness wiring shall be UL Style 1015 CSA TEW or Welding Style Cable or equivalent, all of proper gauge with respect to design current and with sufficient strand count for flexibility and ease of handling.

Battery terminals shall be covered and insulated with molded boots to prevent accidental shorting.

7-6 VEHICLE DETECTION

DETECTORS. Detectors shall conform to the provisions in Section 86-5, "Detectors", of the State Standard Specifications and these Special Provisions.

The Caltrans TEES specification requirement for detectors is amended with the following additional requirements. Detector units are not required to be listed on the Caltrans QPL but compliance with TEES design criteria will be part of the evaluation process. Detector units shall be two channel rack mount with an LCD or LED display of operational parameters. Programming shall be by front panel mounted momentary contact switches. Detector timing is not required, but may be supplied and will not be subject to front panel programming

requirements. Output shall be “solid state”. Currently evaluated and acceptable products are: RENO A&E Type C; EBERLE DESIGN Inc Type LMD222 or LMD 602t; or City Approved Equal.

Detector loop configuration shall be Type D for the front loops nearest to the limit line/crosswalk for all lanes including bicycle lanes. Bicycle lanes shall have Type C loops. Detector loop configuration shall be Type E for the remaining detector loops.

Loop wire shall be Type 2.

In lieu of terminating the detector loop conduit stub-outs as indicated in the Standard Plans, said stub-outs shall terminate at the edge of the gutter; depth shall be below the bottom of the gutter. The lead-in sawcuts shall accommodate this depth providing a smooth transition to the conduit stub-out.

Potholes for detector loop stub-outs shall be capped with asphalt over silica sand.

Hot-Melt Rubberized Asphalt Sealant shall be used for detector loop installation. No exceptions.

All detector loop cables shall be installed prior to the installation of new detector loops. Detector cards meeting the criteria of this section shall be delivered at the time of cable installation. All detector loops shall be spliced on the same day that they are installed to ensure a quick return to actuated operation of the signal.

It shall be the responsibility of the Contractor to layout and mark the pavement surface for all detector loop installations. Loop layout(s) shall be approved by the Traffic Engineer or his representative 48 hours prior to saw cutting.

As directed by the Traffic Engineer, loop lead-in cable and loop wire leads shall be marked to identify the area and/or lane of detection served.

Where curb (PCC) exists and/or is to be constructed as a part of this project, the alignment of the detector loop conduit stub-out(s), new or existing, shall be permanently marked on the gutter, as directed by the Traffic Engineer.

Loop stubouts shall be sized per Caltrans ES-5E and be constructed of schedule 80 PVC electrical conduit.

7-6.1 STANDARD HARDWIRE VIDEO DETECTION SYSTEM

Video detection system shall consist of the following or City approved equal video detection system to include Iteris Vantage Edge 2 Processor – Quad camera input, 24 VDC, Model Edge 2 Quad. It shall also include Iteris Edge 2 extension module, Model No. “EDGE2EM2”, standard camera mounting brackets, Model No. “CAMBRKT4”, and Iteris Turn-On support. The Iteris Vantage Camera Assembly shall be Vantage Vector Hybrid 110-220

VAC, 10W (Typical) 20W (Peak) the power cabling shall be 16 AWG three conductor cable with a minimum outside diameter 0.325 inch and a maximum diameter of 0.490 inch., NTSC output, and Belden 8281 coaxial camera cable with EDCO Model RMCXI.05-Video Detection coaxial suppression / BNC pig-tail cable. The contractor shall also furnish an IPAD Air 2 or Microsoft Surface Tablet (Windows 10), confirm tablet type with Traffic Engineering Division, with Iteris Vector Setup Tool (VST) to configure video and radar detection zones. Contractor shall provide and install a five-foot riser pole when video detection camera is to be installed on a signal mast arm.

The contractor shall furnish all coaxial cables, data cables and all other appurtenances to provide a fully functional system that provides vehicle detection. The system shall be compatible with the City's QuicNet central system software using Model 2070 traffic signal controller and McCain Model 200/233/2033 local software. The advance video detection zones shall be per plan. The video detection camera assembly shall be mounted on the traffic signal Luminaire or signal mast-arm as shown on plan or as directed by the engineer in order to provide appropriate detection zones.

The contractor shall configure and test all of the equipment necessary to provide a fully functional video detection system. The video detection manufacturer or an authorized representative shall be present at the time the video detection systems are turned on to verify proper setup, integration and operation.

7-6.02 Pedestrian Push Buttons. The push button shall be designed to be highly vandal resistant with essentially no moving parts. It shall feature pressure activation using a piezo driven solid-state switch that requires an activating force of less than 3 lbs. Activation of the pedestrian button will be confirmed by the generation of an audible beep tone and a visual indication using an ultra bright red LED with a minimum intensity of 1200 mcd. The body of the button shall be traffic green in color. Polara BDL3-G, Campbell Company 4evr120 round 4-bolt mount, or City approved equal.

Screws used to secure the sign plate to the housing shall be stainless steel #8-32 x 3/8 with tamper proof torx head, size T-15, or a City approved equal.

See Section 7-4 "Signal Faces and Signal Heads", of this Part 7 regarding bolts, nuts, etc.

7-7 LIGHTING AND APPURTENANCES

Luminaires shall conform to the provisions of Section 86-6.01, "High Pressure Sodium Luminaires", of the State Standard Specifications, other applicable parts of Section 86-6, and these Special Provisions.

Luminaires shall conform to the City of Riverside Standard Specifications 119 and UGS-801. All luminaires shall be of the "Power Door Type" with full cut-off light distribution.

Luminaires shall be provided with integral lag regulator type ballast and attached

photoelectric control; both rated for 120V and 240V operations; volt usage shall be as shown on the plan(s).

The Contractor shall mark installation date on photo controls and lamps as provided for by manufacturers.

7-7.04 Light Emitting Diode (LED) Luminaires. The luminaire includes an assembly that uses LEDs as the light source. The assembly includes a housing, an LED array, and an electronic driver (i.e. power supply). The luminaire shall be a GE Evolve LED Series Roadway Cobrahead, Model ERS2-0-Q2-D1-5-Gray-L, or a City approved equal. The luminaire shall comply with the following requirements:

1. UL listed under UL 1598 for luminaires in wet locations or an equivalent standard from a recognized testing laboratory.
2. Have a minimum operational life of 50,000 hours
3. Expected to operate at an average operating time of 12 hours per day
4. Have an operating temperature range from -40 to 120⁰ F
5. A monolithic LED printed circuit board assembly utilizing Metal Core Printed Circuit Board
6. A nominal correlated color temperature (CTT) of 6000 ⁰K
7. A typical color rendering index (CRI) \geq 70
8. A locking photocell receptacle with a tool-less orientation
9. A UL Class 2 power supply units (i.e. drivers) operating in DC constant current mode supplying DC forward current for LED operation (no pulsed operation allowed)
10. A Class A sound rating
11. A housing construction consisting of: die cast aluminum, finished with corrosion resistant polyester powder paint, minimum 2.0 mil thickness – gray color, with internally mounted driver(s) on a replaceable door assembly – accessible without tools, corrosion resistant fasteners, include wildlife intrusion protection at mounting arm
12. LED modules/array shall deliver at least 80% of initial lumens, when installed for a minimum of 50,000 hours
13. IESNA LM-79-08 Approved method for electrical and photometric measurements of solid –state lighting products
14. ISNA LM-80-08 Approved method for measuring lumen maintenance of LED lighting sources
15. A 5 year minimum warranty for the replacement or repair of the luminaire due to any electrical failure (including light source and or power supplies/drivers).

7-7.06 Internally Illuminated Street Name Signs. Internally illuminated street name signs shall conform to Section 86-6.065, “Internally Illuminated Street Name Signs”, of the State Standard Specifications except that “Ballasts”, “Lampholders”, and “Lamps” sections shall not apply and instead an LED retrofit kit shall be provided. The internally illuminated street name signs shall be per the details shown on the plan(s), and these Special Provisions.

The LED retrofit kit shall have a Five-Year Warranty on parts and labor. It shall operate on a low voltage 24 V System, have all electronic components UL Certified, and have the LED modules water resistant. The LED retrofit kit may be obtained by contacting ILLumEcon at 909-223-3532 or at jim@jimmyer.com. The LED kits shall be specified for standard 6' or 8' IISNS frames and shall contain all parts necessary to be mounted on standard IISNS frames.

The LED retrofit kit shall be an ILLumEcon or City approved equal.

Signs shall be Type A.

3M Diamond Grade 3 (ASTM XI) Translucent Reflective Sheeting Series 4090T shall be used in the production of the internally illuminated street name sign panels, or a City approved equal. Refer to Sec. 7-1.04 of this PART 7 regarding "City approved equal".

MESSAGE. The message, as shown on the plans, shall be displayed on both sign panels. Letters shall be 8" upper case and 6" lower case.

Each sign shall have a photoelectric control cell. This photoelectric unit shall be contained in the sign housing and shall comply with the provisions of Section 86-6.07, "Photoelectric Controls", of the Standard Specifications.

A shop drawing of the "Message" for each sign shall be submitted for approval prior to fabrication and installation.

7-8 FIBER OPTIC EQUIPMENT

7-8.1 General Considerations. Fiber optic cable installed in conduit shall be single mode fiber of the size as specified on the plans and/or these special provisions. Outdoor-rated fiber optic cable shall be Corning ALTOS all-dielectric gel-free fiber optic cable or approved equivalent. Indoor-outdoor rated fiber optic cable shall be Corning FREEDM all-dielectric gel-free fiber optic cable or approved equivalent.

7-8.2 Outdoor Rated Fiber Characteristics. One hundred percent (100%) of the outdoor-rated optical fibers shall meet or exceed the requirements contained in this specification.

The cable shall meet the requirements of ITU-T G.652.D. All fibers within the finished cable shall be composed primarily of silica and shall have a matched clad index of refraction profile. The cable shall be sheathed with medium density polyethylene with a nominal jacket thickness of 1.4mm. The jacketing material shall be applied directly over tensile strength members and swellable tape. The polyethylene shall contain carbon black to provide ultraviolet light protection. The cable physical and performance characteristics that shall meet the requirements in the following table:

| Parameters | Value |
|---------------|--------------------------------------|
| Mode | Single |
| Type | Corning ALTOS or approved equivalent |
| Core diameter | 8.3 μm (nominal) |

| Parameters | Value |
|---|--|
| Cladding diameter | 125 $\mu\text{m} \pm 0.7 \mu\text{m}$ |
| Core to Cladding Offset | $\leq 0.7 \mu\text{m}$ |
| Coating Diameter | 242 $\mu\text{m} \pm 5 \mu\text{m}$ |
| Cladding Non-circularity defined as: $[1 - (\text{min. cladding dia} \div \text{max. cladding dia.})] \times 100$ | $\leq 1.0\%$ |
| Proof/Tensile Test | 100 kpsi, min. |
| Attenuation: @ 1310 nm @ 1385 nm @ 1550 nm | $\leq 0.4 \text{ dB/km}$ $\leq 0.4 \text{ dB/km}$ $\leq 0.3 \text{ dB/km}$ |
| Attenuation Uniformity | No point discontinuity greater than 0.05 dB at either 1310 nm or 1550 nm |
| Attenuation at the Water Peak | $\leq 2.1 \text{ dB/km @ } 1383 \pm 3 \text{ nm}$ |
| Attenuation At Extreme Operational Temperatures | $\leq +0.05 \text{ dB @ } 1310 \text{ nm or } 1550 \text{ nm}$ |
| Chromatic Dispersion: Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope | $1302 \leq \lambda_0 \leq 1324 \text{ nm}$ $\leq 0.092 \text{ ps}/(\text{nm}^2 \cdot \text{km})$ |
| Maximum Dispersion: | $\leq 3.5 \text{ ps}/(\text{nm} \cdot \text{km})$ for 1285 - 1330 nm $\leq 18 \text{ ps}/(\text{nm} \cdot \text{km})$ for 1550 nm |
| Cut-Off Wavelength | $< 1260 \text{ nm}$ |
| Mode Field Diameter (Petermann II) | $9.2 \pm 0.4 \mu\text{m}$ at 1310 nm $10.4 \pm 0.5 \mu\text{m}$ at 1550 nm |
| Cable Outer Diameter | 0.41" (10.5 mm) for 12 and 24-strand |
| Buffer Tube Size | 0.1" (2.5 mm) |

7-8.2.1 General Outdoor Rated Cable Performance Specifications. The cable shall be tested in accordance with TIA/EIA-455-3A (FOTP-3), "Procedure to Measure Temperature Cycling Effects on Optical Fiber, Optical Cable, and Other Passive Fiber Optic Components." The average change in attenuation at extreme operational temperatures (-40 °C to +70 °C) will not exceed 0.15 dB/km at 1550 nm. The magnitude of the maximum attenuation change of each individual fiber will not be greater than 0.30 dB/km at 1550 nm. This figure includes an allowance of up to 0.05 dB/km for measurement repeatability.

The fiber optic cable shall withstand water penetration when tested with a one meter static head or equivalent continuous pressure applied at one end of a one meter length of filled cable for one hour, no water shall leak through the open cable end. Testing shall be done in accordance with TIA/EIA-455-82 (FOTP-82), "Fluid Penetration Test For Fluid-Blocked Fiber Optic Cable."

The cable shall exhibit no flow (drip or leak) for 24 hours at 70° C. The weight of any compound that drips from the sample shall be less than 0.05 grams (0.002 ounce). A representative sample of cable shall be tested in accordance with TIA/EIA-455-81B (FOTP-81), "Compound Flow [Drip] Test for Filled Fiber Optic Cable". The test sample shall be prepared in accordance with method A.

Crush resistance of the finished fiber optic cables shall be 220 N/cm applied uniformly over the

length of the cable without showing evidence of cracking or splitting when tested in accordance with TIA/EIA-455-41 (FOTP-41), "Compressive Loading Resistance of Fiber Optic Cables." The 220 N/cm (125 lbf/in) load shall be applied at a rate of 2.5 mm (0.1 in) per minute. The load shall be maintained for a period of 1 minute. The load shall then be decreased to 110 N/cm (63 lbf/in). Alternatively, it is acceptable to remove the 220 N/cm (125 lbf/in) load entirely and apply the 110 N/cm (63 lbf/in) load within five minutes at a rate of 2.5 mm (0.1 in) per minute. The 110 N/cm (63 lbf/in) load shall be maintained for a period of 10 minutes. Attenuation measurements shall be performed before release of the 110 N/cm (63 lbf/in) load. The change in attenuation shall not exceed 0.15 dB during loading at 1550 nm for single-mode fibers and 0.30 dB during loading at 1300 nm for multimode fiber. The repeatability of the measurement system is typically 0.05 dB or less. No fibers shall exhibit a measurable change in attenuation after load removal.

The cable shall withstand 25 cycles of mechanical flexing at a rate of 30 ± 1 cycles/minute around a sheave diameter not greater than 20 times the cable diameter. The cable shall be tested in accordance with Test Conditions I and III of TIA/EIA-455-104A (FOTP-104), "Fiber Optic Cable Cyclic Flexing Test." The magnitude of the attenuation change will not be greater than 0.15 dB at 1550 nm for single-mode or 0.30 dB at 1300 nm for multimode. The repeatability of the measurement system is typically ± 0.05 dB or less.

Impact testing shall be conducted in accordance with TIA/EIA-455-25B (FOTP-25) "Repeated Impact Testing of Fiber Optic Cables and Cable Assemblies." The cable shall withstand a minimum of two impact cycles at three locations on a one meter cable length. The impact energy shall be at least 4.4 N·m (in accordance with ICEA S-87-640). The fibers shall not experience an attenuation change greater than 0.15 dB at 1550 nm for single-mode or 0.30 dB at 1300 nm for multimode. The repeatability of the measurement system is typically ± 0.05 dB or less.

Using a maximum mandrel and sheave diameter of 560 mm, the finished cable shall withstand a rated tensile load of 2670 N (601 lbf) and a residual load of 30% of the rated installation load applied for one hour (using "Test Condition II" of the test plan). The test shall be conducted in accordance with TIA/EIA-455-33 (FOTP-33), "Fiber Optic Cable Tensile Loading and Bending Test." The measured fiber tensile strain shall be $\leq 60\%$ of the fiber proof strain. The change in attenuation at residual load and after load removal shall not exceed 0.15 dB at 1550 nm for single mode fiber and 0.30 dB at 1300 nm for multimode fiber. The repeatability of the measurement system is typically ± 0.05 dB or less.

A length of cable, no greater than two meters will withstand 10 cycles of mechanical twisting in accordance with FOTP-85, "Fiber Optic Cable Twist Test." The fiber shall not experience an attenuation change greater than 0.15 dB at 1550 nm for single-mode or 0.30 dB at 1300 nm for multimode.

7-8.3 Indoor-Outdoor Rated Fiber Characteristics One hundred percent (100%) of the indoor-outdoor rated optical fibers shall meet or exceed the requirements contained in this specification.

The cable shall meet the requirements of ITU-T G.652.D. All fibers within the finished cable

shall be composed primarily of silica and shall have a matched clad index of refraction profile. Cable shall be sheathed with flame-retardant polyvinyl chloride (PVC). Jacketing material shall be applied directly over the tensile strength member and water blocking tape. The PVC shall contain carbon black or a UV stabilized colored compound to provide ultraviolet light protection. The cable physical and performance characteristics that shall meet the requirements in the following table:

| Parameters | Value |
|---|--|
| Mode | Single |
| Type | Corning FREEDM or approved equivalent |
| Core diameter | 8.3 μm (nominal) |
| Cladding diameter | 125 $\mu\text{m} \pm 1.0 \mu\text{m}$ |
| Core to Cladding Offset | $\leq 0.7 \mu\text{m}$ |
| Coating Diameter | 240 $\mu\text{m} \pm 0.5 \mu\text{m}$ |
| Cladding Non-circularity defined as: $[1 - (\text{min. cladding dia} \div \text{max. cladding dia.})] \times 100$ | $\leq 1.0\%$ |
| Proof/Tensile Test | 100 kpsi, min. |
| Attenuation: @ 1310 nm @ 1385 nm @ 1550 nm | $\leq 0.4 \text{ dB/km}$ $\leq 0.4 \text{ dB/km}$ $\leq 0.3 \text{ dB/km}$ |
| Attenuation Uniformity | No point discontinuity greater than 0.1 dB at either 1300 nm or 1550 nm |
| Attenuation at the Water Peak | $\leq 2.1 \text{ dB/km @ } 1383 \pm 3\text{nm}$ |
| Attenuation At Extreme Operational Temperatures | $\leq +0.05 \text{ dB @ } 1310 \text{ nm or } 1550 \text{ nm}$ |
| Chromatic Dispersion: Zero Dispersion Wavelength (λ_0) Zero Dispersion Slope | $1302 \leq \lambda_0 \leq 1322 \text{ nm}$ $\leq 0.092 \text{ ps}/(\text{nm}^2 \cdot \text{km})$ |
| Maximum Dispersion: | $\leq 3.5 \text{ ps}/(\text{nm} \cdot \text{km})$ for 1285 - 1330 nm $\leq 18 \text{ ps}/(\text{nm} \cdot \text{km})$ for 1550 nm |
| Cut-Off Wavelength | $< 1260 \text{ nm}$ |
| Mode Field Diameter (Petermann II) | $9.2 \pm 0.4 \mu\text{m}$ at 1310 nm $10.5 \pm 0.5 \mu\text{m}$ at 1550 nm |
| Cable Outer Diameter | 0.51" (12.9 mm) for 48-strand |
| Buffer Tube Size | 0.1" (2.5 mm) |

7-8.3.1 General Indoor-Outdoor Rated Cable Performance Specifications. The cable shall be tested in accordance with TIA/EIA-455-3A (FOTP-3), "Procedure to Measure Temperature Cycling Effects on Optical Fiber, Optical Cable, and Other Passive Fiber Optic Components." The average change in attenuation at extreme operational temperatures (-40 °C to +70 °C) will not exceed 0.40 dB/km at 1550 nm. The magnitude of the maximum attenuation change of each individual fiber will not be greater than 0.30 dB/km at 1550 nm. This figure includes an allowance of up to 0.05 dB/km for measurement repeatability.

The fiber optic cable shall withstand water penetration when tested with a one meter static head or equivalent continuous pressure applied at one end of a one meter length of filled cable for one hour, no water shall leak through the open cable end. Testing shall be done in accordance with

TIA/EIA-455-82 (FOTP-82), "Fluid Penetration Test For Fluid-Blocked Fiber Optic Cable."

Crush resistance of the finished fiber optic cables shall be 220 N/cm applied uniformly over the length of the cable without showing evidence of cracking or splitting when tested in accordance with TIA/EIA-455-41 (FOTP-41), "Compressive Loading Resistance of Fiber Optic Cables." The 220 N/cm (125 lbf/in) load shall be applied at a rate of 2.5 mm (0.1 in) per minute. The load shall be maintained for a period of 1 minute. The load shall then be decreased to 110 N/cm (63 lbf/in). Alternatively, it is acceptable to remove the 220 N/cm (125 lbf/in) load entirely and apply the 110 N/cm (63 lbf/in) load within five minutes at a rate of 2.5 mm (0.1 in) per minute. The 110 N/cm (63 lbf/in) load shall be maintained for a period of 10 minutes. Attenuation measurements shall be performed before release of the 110 N/cm (63 lbf/in) load. The change in attenuation shall not exceed 0.40 dB during loading at 1550 nm for single-mode fibers and 0.60 dB during loading at 1300 nm for multimode fiber. The repeatability of the measurement system is typically 0.05 dB or less. No fibers shall exhibit a measurable change in attenuation after load removal.

The cable shall withstand 25 cycles of mechanical flexing at a rate of 30±1 cycles/minute. The cable shall be tested in accordance with Test Conditions I and III of TIA/EIA-455-104A (FOTP-104), "Fiber Optic Cable Cyclic Flexing Test." The magnitude of the attenuation change will not be greater than 0.40 dB at 1550 nm for single-mode or 0.60 dB at 1300 nm for multimode. The repeatability of the measurement system is typically ± 0.05 dB or less. The cable jacket will exhibit no cracking or splitting greater than 5 mm.

Impact testing shall be conducted in accordance with TIA/EIA-455-25B (FOTP-25) "Repeated Impact Testing of Fiber Optic Cables and Cable Assemblies." The cable shall withstand a minimum of two impact cycles at three locations separated by at least 150 mm. The impact energy shall be 4.4 N·m. The fibers shall not experience an attenuation change greater than 0.40 dB at 1550 nm for single-mode or 0.60 dB at 1300 nm for multimode. The repeatability of the measurement system is typically ± 0.05 dB or less. The cable jacket will not exhibit evidence of cracking or splitting at the completion of the test.

A length of cable shall be tested to the rated tensile load in accordance with FOTP-33, "Fiber Optic Cable Tensile Loading and Bending Test," and FOTP-38, "Measurement of Fiber Strain in Cables Under Tensile Load." The rated tensile load shall be 2670 N (600 lbf). While under the rated tensile load, the fiber shall not experience a measured fiber strain greater than 60% of the fiber proof test level. After being held at the residual load (30% of the rated tensile load) the fiber shall not experience a measured fiber strain greater than 20% of the fiber proof test level nor an attenuation change greater than 0.40 dB at 1550 nm for single-mode or 0.60 dB at 1300 nm for multimode. After the tensile load is removed, the fibers shall not experience an attenuation change greater than 0.40 dB at 1550 nm for single-mode or 0.60 dB at 1300 nm for multimode.

A length of cable, no greater than two meters, will withstand 10 cycles of mechanical twisting in accordance with FOTP-85, "Fiber Optic Cable Twist Test." The fiber shall not experience an attenuation change greater than 0.40 dB at 1550 nm for single-mode or 0.60 dB at 1300 nm for multimode. No cracks or splits in the jacket shall be present when inspected under 5X

magnification.

7-8.4 Color Coding. Optical fibers shall be distinguishable from others in the same buffer tube by means of color-coding according to the following:

| | |
|----------------|-----------------|
| 1. Blue (BL) | 7. Red (RD) |
| 2. Orange (OR) | 8. Black (BK) |
| 3. Green (GR) | 9. Yellow (YL) |
| 4. Brown (BR) | 10. Violet (VL) |
| 5. Slate (SL) | 11. Rose (RS) |
| 6. White (WT) | 12. Aqua (AQ) |

The colors shall be targeted in accordance with the Munsell color shades and shall meet TIA/EIA-598B "Optical Fiber Cable Color Coding" and RUS 7 CFR 1755.900.

The color formulation shall be compatible with the fiber coating and the buffer tube filling compound, and be heat stable. It shall not fade or smear or be susceptible to migration, it shall not affect the transmission characteristics of the optical fibers and shall not cause fibers to stick together.

7-8.5 CONSTRUCTION MATERIALS

7-8.5.1 Branch Cable. At the locations shown on the Plans, the Contractor shall provide a single mode optical fiber cable between each mid-span splice location and each traffic control equipment cabinet, which shall contain 12 optical fibers. The branch cable shall be spliced into the appropriate fiber strand(s) in the mainline cable as prescribed elsewhere in the Plans and/or these Special Provisions. The branch cable shall have the 12 optic fibers terminated at its other end with connectors as described elsewhere in this specification.

Optical fiber cable used for a branch cable shall comply with all other aspects of the specifications as set forth in the Special Provisions for optical fiber cable. The branch cable shall have sufficient length to extend from the fiber splice location to the optical interface of the associated communications equipment, allowing for routing and securing with nylon ties plus fifteen (15) feet of slack at each end, unless otherwise specified in the Plans or these Special Provisions or directed by the Engineer.

The branch cable shall be sufficiently de-sheathed within the traffic control cabinet or communication hub to allow adequate slack fiber to afford ease of routing of the active fiber to the communications equipment. The Contractor shall provide a thermal shrink sleeve dam or other appropriate wrapping at the beginning of the de-sheathed cable area so as to prevent loss of any aqueous gel filling from the remainder of the service branch cable.

7-8.5.2 Fiber Optic Patch Cords. The fiber optic cable patch cords, assemblies and components shall be compatible components, designed for the purpose intended, and manufactured by a company regularly engaged in the production of material for the fiber optic industry. All components or assemblies shall be best quality, non-corroding, with a design life of at least twenty (20) years. All patch cords, components or assemblies of the same type shall be

from the same manufacturer.

The Contractor shall furnish and install Patch cords, which are fiber optic cables with connectors on both ends. Patch cords are used to connect fiber optic transmission equipment to connector panel modules. The patch panel shall interface to patch cords with approved connectors.

Patch cords shall have 900JAm single-fiber single mode cable with approved connectors. The patch cords shall be at least six (6) feet in length and shall be pre-sized in the factory to the required lengths. The attenuation of the cable shall be between 1.0 and .75 dB. All patch cords shall be installed without exceeding the manufacturer specified bending radius.

Acceptable equipment shall be from Corning Cable System or approved equal.

7-8.5.3 Fiber Optic Connectors. The Contractor shall furnish and install fiber optic pre-manufactured connectors that are single mode LC type connectors that meet the requirements for outdoor installation with Gigabit Ethernet communications. LC type connectors will be used for field (outdoor) installations and for indoor installations. LC connectors shall meet the following specifications.

| | |
|-------------------------------|---|
| Interconnection Compatibility | The Connectors shall be compliant with EIA/TIA and JIS specifications for LC compatible connectors. |
| Insertion Loss | 0.4 dB (typical) |
| Reflectance | ≤ -40 dB between a temperature range of -40 C to 75 C |
| Durability | ≤0.3 dB change, 200 rematings. |
| Tensile Strength | ≤ 0.2 dB change, 10 lb. |
| Temperature Cycling | ≤0.3 dB change, -40 C to 75 C |
| Nominal Fiber OD | 125μm |
| Materials | Ferrule: Ceramic Housing: Composite |

Accepted equipment shall be LC Compatible Single Mode, as required, *from Corning Cable System or approved equal.*

7-8.5.4 Splice Vaults. Metallic or non-metallic cable racks shall be installed on the interior of both sides of the splice vaults. The rack shall be capable of supporting a minimum load of 100 pounds per rack arm. Racks shall be supplied in lengths appropriate to the box in which they will be placed. Rack arms shall not be less than 6 inches in length. All metallic cable racks shall be fabricated from ASTM Designation: A36 steel plate and shall be hot-dip galvanized after fabrication. Steel plate, hardware and galvanizing shall be in accordance with the requirements of Section 75, "Miscellaneous Metals", of the Standard Specifications.

7-8.5.5 Fiber Distribution Unit. The fiber distribution unit (FDU) shall be rack-mountable or

shelf-mountable as shown on plans. The Contractor shall furnish and install all components to terminate the incoming fiber optic communication cables.

Rack-Mountable FDU

The rack-mountable FDU shall be EIA standard rack-mount type as shown on the plans.

The rack-mountable FDU shall be 19 inch in width.

The rack-mountable FDU shall not exceed 10 inches in height and 18 inches in depth.

The rack-mountable FDU shall include a slide-out metal drawer for storage of spare jumpers.

Shelf-Mountable FDU

The shelf-mountable FDU shall be stand-alone type.

The shelf-mountable FDU shall not exceed 6 inches in width, 14 inches in height, and 17 inches in depth.

The shelf-mountable FDU shall include a splice tray holder to secure splice trays within the FDU.

The shelf-mountable FDU shall include jumper routing guides for storage and management of jumpers.

All FDU's shall include the following:

1. A patch panel to terminate the appropriate number of single-mode fibers with LC-type connector feed through couplers.
2. Splice trays or cassettes.
3. Storage for splice trays or cassettes.

Strain relief shall be provided for the incoming fiber optic cable. Cable accesses shall have rubber grommets or similar material to prevent the cable from coming in contact with metal. Brackets shall be provided to spool the incoming fiber a minimum of two turns, each turn shall not be less than 12 inches, before separating out individual fibers to the splice tray. More than one cable may be assigned to an FDU, but fibers from the same cable shall not be split between two FDUs.

FDU's shall house the splice trays needed to store the "breakout to pigtail" splices. The splice tray front covers shall be Lexan with a rear cover of metal of the same gauge and color as the remainder of the FDU.

FDU patch panels shall be sized to contain sufficient connector housing panels to handle the associated cables and their respective breakouts. The patch panel shall have hinged panel or coupler plate access to provide easy entrance and maintenance. The patch panel shall be located internal to the unit so as not expose fiber optic connections. All fibers shall be terminated and individually identified in the FDU and on the patch panel.

Panels shall have at least six coupler capacity and all panel positions shall be filled with

couplers. Where panels have spare LC positions, the couplers shall have dust covers on both sides. Coupler capacities shall usually range from 12 to 144 fibers or couplers, as indicated on the plans. Couplers shall be mounted in panels housed within the FDU. At a hub, four 24-fiber connector housing panels shall be required for 96-fiber total capacity. Spare panel positions within the FDU shall have blanks or panels ready for future expansion. The front and back/side covers of the FDU shall be retractable or removable to facilitate internal installation.

7-8.6 CONSTRUCTION METHODS

7-8.6.1 Fiber Optic Cable Installation. Fiber optic cables shall be installed in continuous lengths without intermediate splices throughout the project, except at the location(s) specified in the Plans.

When ordering fiber optic cable the Contractor shall exercise extreme caution so as to ensure that no additional splicing, beyond that indicated in the Plans, shall be required. Should the Contractor believe additional splices are required, this matter shall be immediately brought to the attention of the City's Engineer for resolution.

The Contractor shall install the fiber optic cable in strict adherence to the manufacturer's recommended procedures. Care shall be taken to avoid cable damage during handling and placing. Fiber optic cable is sensitive to excessive pulling, bending and crush forces. The minimum bending and maximum tension requirements for installing the fiber optic cables shall be according to the manufacturer's specifications.

Cable installation personnel shall be familiar with the cable manufacturer's recommended procedures including, but not limited to the following:

- Proper attachment to the cable strength elements for pulling during installation.
- Cable tensile limitations and tension monitoring procedures.
- Cable bending radius limitations.

To accommodate long continuous installation lengths, bi-directional pushing of the optical fiber cable is permissible and shall generally be implemented as follows:

1. From the midpoint of a pull station, push or blow the optical fiber cable into the duct from the shipping reel in accordance with the manufacturer's specifications.
2. When this portion of the push/blow is complete, the remainder of the cable should be removed from the reel to make the inside end available for pulling in the opposite direction.
3. This is accomplished by hand pulling the cable from the reel and laying it into large "figure eight" loops on the ground. The purpose of the figure eight pattern is to avoid cable tangling and kinking.

4. The figure eight loops shall be laid carefully one upon the other (to prevent subsequent tangling) and shall be in a protected area.
5. The inside reel end of the cable should be available for testing.
6. Should it be necessary to set up an air compressor to blow the fiber at an intermediate pull box, the required length of cable shall be pushed to that point and brought out of the pull box and coiled into a figure eight.
7. The figure eight is then turned over to gain access to the free cable end. This can then be reinserted into the conduit system for installation into the next section.

The installation of loose tube fiber on Caltrans right-of-way shall be installed per Caltrans standards. Contractor shall be responsible for making himself/herself fully aware of the Caltrans standards.

Mechanical aids may be used to assist cable installation. The pulling eye/sheath termination or cable grip hardware on the optical fiber cables shall not be pulled over any sheave blocks. Field installed pulling grips with a rotating type swivel shall be used to pull the fiber optic cable.

A Corning Cable System GRP series or equivalent woven wire type of grip is recommended.

When power equipment is used to install optical fiber cabling, the pulling speed shall not exceed 100 feet per minute. The pulling tension and bending radii limitation for optical fiber cables shall not be exceeded under any circumstances. A tension measuring device or break-away swivel shall be placed between the pull line and the end of the cable to ensure that the tension does not exceed 80 percent of recommended tension or 2225 N, whichever is less. A ball bearing swivel shall be utilized between the pull line and the end of the cable to prevent the cable from twisting during installation.

Large diameter wheels, pulling sheaves, and cable guides shall be used to maintain the appropriate bending radius. During cable installation, the bend radius shall be maintained at a minimum of twenty times the outside diameter of the cable. The cable shall not be stressed beyond the minimum bend radius at any time during installation. Tension monitoring shall be provided at all times during the pulling operation and shall be accomplished using commercial dynamometers or load-cell instruments.

Fiber optic cable shall be installed using a cable pulling lubricant recommended by both the fiber optic cable and the conduit manufacturer, and a non-abrasive pull rope/tape conforming to the provisions described under "Conduit" elsewhere in these Special Provisions. Cable lubricant shall be compatible with the fiber optic cable outer sheath and existing cable where fiber cable is installed in a conduit with other existing cable. Lubricant shall be applied according to the manufacturer's recommendations.

Contractor's personnel shall be stationed at each vault and pull box through which the cable is to

be pulled to lubricate and prevent kinking or other damage to the cable.

The pull plan shall state the exact operational procedures to be utilized and identifies the physical locations for equipment placement, proposed equipment setup at each location, location of the manpower, the pulling methodology and the estimated pulling tensions for each pull section. The Contractor shall provide the pulling tension calculations and any backup information with the pull plan.

Where the fiber optic cable is installed in existing conduit or utility ducts that contain existing cables, the Contractor shall install the fiber in conduit without removal of the existing cables, unless otherwise specified on the plans. The Contractor shall be responsible for replacing any cables damaged during removal and reinstallation at the cost of the Contractor and not the Engineer or the City.

Cable slack shall be provided for each cable at each fiber optic splice location, as shown on the plans and as specified in these Special Provisions. Cable slack shall be divided equally on each side of a splice closure or pull box. Sufficient slack shall also be provided at all pull boxes to facilitate placing the optical fiber cable against the side of the pull box.

At all pull boxes and cable vaults, cable slack, as shown on the plans, shall be left by the Contractor for all installed fiber cable. Cable slack shall be coiled and secured to the racking hardware with tie wraps. The Contractor shall ensure that the minimum bending radius of the optical fiber cable is not compromised when preparing this stored cable slack.

Following installation of the cable in duct, all duct entrances in cabinets, pull boxes and vaults shall be sealed with mechanical plugs; or at the discretion of the Engineer, duct sealing compound, to prevent the ingress of moisture, foreign materials and rodents.

7-8.6.2 Splicing. Fiber optic cable shall be installed without splices except where specifically allowed on the Plans or described in these Special Provisions. The single-mode fiber optic cables designated as trunk cable shall be spliced only at splice vault locations as shown on the plans. When splicing into a trunk cable, only those fibers designated on the Plans shall be severed. All other fibers shall remain intact. The Engineer may allow additional splices between these specified locations, for which advance written concurrence must be solicited and received.

Splicing - Optical fibers shall be spliced using the fusion splice method and the insertion loss shall not exceed 0.07 dB of loss per splice.

Field splicing is permitted for the following:

- Connection of a mainline cable to a branch cable.
- Connection of service branch cable or breakout cable to an optical fiber pigtail at traffic equipment cabinets or the patch panels in a hub equipment cabinet or at the TMC.
- Connection of the mainline cable to an optical fiber pigtail at the FDU in the TMC or at the field location as shown on the plans.

- Connection of two or more mainline fiber optic cables as shown on the plans.

The Contractor shall not exceed the maximum number of field splices permitted as shown on the plans. Completed splices shall be placed in a splice tray. The splice tray shall then be placed in a watertight splice enclosure. Field splices shall be conducted only at locations as shown on the plans as an approved splice location.

All splicing equipment shall be in good working order, properly calibrated, and meeting all industry standards and safety regulations. Cable preparation, closure installation, and splicing shall be accomplished in accordance with accepted and approved industry standards.

Using a mid-span splicing method, a branch cable shall be joined to the fibers in the fiber optic cable span. The termination splices shall be placed in a splice tray and the splice tray(s) shall then be placed in a watertight splice closure.

Equipment cabinets shall be equipped with splice trays suitable for storage and protection of each single-mode optical fiber pigtail and the splice connection to cable fibers. Equipment cabinets shall be equipped with a suitable means for routing and securing of cables, fibers, and pigtails to prevent damage to fibers during all regular operation and maintenance functions

All splices shall be protected with a thermal shrink sleeve.

All fibers shall be labeled in the splice tray with permanent vinyl markers. Pigtail ends shall also be labeled to identify the destination of the fiber. Pigtail ends shall also be labeled to identify the destination of the fiber.

Upon completion of the splicing operation, all waste material shall be deposited in suitable containers, removed from the job site, and disposed of in an environmentally acceptable manner.

7-8.6.3 Fiber Optic Cable Assemblies. Cable assemblies (connectors, pigtails and jumpers) shall be products of the same manufacturer. The cable used for cable assemblies shall be made of fiber meeting the performance requirements of these Special Provisions for the fiber optic cable being connected, except that the operating temperature shall be modified to -20° C. to +70° C.

Manufacturer's attenuation test results shall be provided for all cable assemblies.

The outer jacket of jumpers shall be yellow.

Optical Fiber Connectors - All optical fiber termination components shall meet or exceed the applicable provisions of TIA/EIA-455-B, Standard Test Procedure for Fiber Optic Fibers, Cables, Transducers, Sensors, Connecting and Terminating Devices, and Other Fiber Optic Components.

All optical fiber connectors shall be of industry standard approved connector for single-mode optical fiber and shall meet or exceed the applicable provisions of TIA/EIA-455-2C (FOTP-2),

Impact Test Measurements for Fiber Optic Devices, TIA/EIA-455-5B (FOTP-5), Humidity Test Procedure for Fiber Optic Components, and TIA/EIA-455-34A (FOTP-34), Interconnection Device Insertion Loss Test. When tested in accordance with FOTP –2, the connector assembly will be subjected to ten impact cycles by being dropped from a height of 1.5 m. The maximum insertion loss measured before and after the impacts should be < 0.50 dB. The mean insertion loss of the before and after impacts should be < 0.30 dB. The insertion loss increase measured before and after the impacts should be < 0.30 dB. The maximum reflectance measured before and after the impacts should be < 40 dB. When tested in accordance with FOTP – 5, the connector assembly will be subjected to test conditions of 75 °C and 95% relative humidity for 7 days. Measurements of loss and reflectance will be made at the beginning of the test, at a minimum of six hour intervals during the test, and at the end of the test. The maximum insertion loss measured before, during, or after the test should be < 0.50 dB. The mean insertion loss of the before, during, or after the test should be < 0.30 dB. The insertion loss increase measured before, during, or after the test should be < 0.30 dB. The maximum reflectance measured before, during, or after the test should be < 40 dB.

Optical fiber connectors shall satisfy all of the interface parameters of equipment components as may be defined by the transmission equipment specifications. All optical fiber connector assemblies shall be machine polished for low back-reflection and low insertion losses at both 1310 nm and 1550 nm operating wavelengths.

Single-mode pigtails shall be provided with factory pre-connectorized single-mode connectors. Connectors shall have maximum insertion loss of 0.27 dB or better. Connectors shall have a stainless-steel barrel (coupling nut) with a bayonet connection design, ceramic (zirconia) ferrule. Each connector shall be capable of 200 repeated matings with a total maximum additional increase in insertion loss after 200 matings limited to 0.30 dB.

Each connector shall have a return loss (back reflection) equal to or better than 55 dB.

All connectors shall be factory-assembled and tested. There shall be no fabrication of connectors in the field.

All unmated connectors shall have protective caps installed.

Couplers - Couplers shall be made of nickel plated zinc or a glass reinforced polymer that is consistent with the material forming the associated approved connector. The design mechanism for mounting the coupler to the connector panel may be flanged or threaded but shall coincide with the connector panel punch-outs. All coupler sleeves shall be ceramic of the split clamshell or cloverleaf design. The temperature operating range for couplers shall be the same as that specified for the connectors.

Pigtails - Pigtails shall be of simplex (one fiber) construction, in 900 I m tight-buffer form, surrounded by aramid for strength, with a connector on one end. The outer jacket shall be yellow PVC with a nominal diameter of 3 mm, marked with the manufacturer's identification information. All pigtails shall be of adequate length for the intended connection purpose, but not less than one meter in length. Pigtails installed in conduit shall follow the installation procedures

outlined for fiber optic cables, except that the pulling tension shall not exceed 500 N (110 lbf.).

Jumpers - Jumpers shall be simplex. All jumpers shall be at least two (2) meters in length, sufficient to avoid stress, and allow orderly routing. Jumpers shall have appropriate connectors on both ends.

7-8.6.4 Fiber Assignment. Fiber optic strands should be connected to couplers on housing connector panels in the same order as described in the Color Coding section of this document. The completion of a single buffer tube, with the installation order also as described in the Color Coding section, is required prior to the connection of a successive buffer tube. For example, all twelve strands in the blue buffer tube are required to be connected prior to the connection of any strands in the orange buffer tube. Pig-tail connections should be installed from right to left on the back of the housing connector panel so they will be view from left to right on the front of the panel. Where two rows of couplers exist on the housing connector panel, completion of the top row should be completed prior to installation on the bottom row.

7-8.6.5 Installation of Splice Vaults. The Contractor shall install 50 feet of cable slack (25 feet from each cable end) within each splice vault location, unless otherwise shown on the Plans.

Any existing improvements damaged by the Contractor shall be replaced as per section 86-2.03, "Removing and Replacing Improvements", of the State Standard Specifications at the cost of the Contractor and not the City.

All ground connections shall be coated with oxidation prohibiting compound and conduits shall be sealed with compatible sealant material.

After conductors/cables have been installed, the exposed end of conduits remaining in pull boxes shall be sealed with a sealing compound as approved by the Engineer. Conduits for future use in pull boxes shall be capped. The Contractor shall install new 3/8" pull rope and #10 green pull-wire intact between successive pull boxes for all new conduits. All of the #10 wires entering a pull box or splice vault shall be joined by a wire-nut and shall not be spliced between vaults or pull boxes. The Contractor shall install a minimum of 5 feet of slack interconnect cable and a minimum of 50 feet of fiber optic cable slack (25 feet from each cable end) within each splice vault location. All ground connections shall be coated with oxidation prohibiting compound and conduits shall be sealed with compatible sealant material.

7-8.6.6.1 Fiber Optic Cable Link Testing. The installed optical fiber cable shall be tested for compliance with the transmission requirements of this specification, the cable and hardware manufacturer's specifications, and prescribed industry standards and practices. The Contractor shall provide all personnel, equipment, instrumentation, and materials necessary to perform all testing herein.

Multiple tests shall be required prior to shipment as well as before and after installation of the cable. The results of these tests shall be logged and given to the City for future use. Documentation of all test results shall be provided to the Engineer within two working days after the field tests are performed. The documentation shall also be made part of and submitted as part

of the Operations & Maintenance Manual.

The types of acceptance tests required by the City of fiber optic cable system certification are:

1. Documentation of compliance with the fiber specifications, as specified in these Technical Provisions, shall be supplied by the fiber manufacturer. Before shipment, but while on the shipping reel, 100% of all fibers shall be tested for attenuation. Copies of the results shall be:
 - a. Maintained on file by the fiber manufacturer, with a file ID number for a period of five (5) years.
 - b. Attached to each fiber cable shipping reel in a waterproof pouch.
 - c. Results of test to be submitted to the city in a CD.

Submitted to both Contractor and Engineer and shall be made part of the Operations and Maintenance Manual.

7-8.6.6.2 Continuity Testing (before installation). The fiber cable shall be physically inspected on delivery and the attenuation shall be measured for 100% of the fibers. In addition, the continuity test procedure shall be used on short links (less than 300 feet) of the cable system during construction to validate continuity of fiber elements.

Failure of any single fiber within the cable to comply with these Technical Provisions shall be cause for rejection of the entire reel. Test results shall be recorded, dated, compared and filed with the copy accompanying the shipping reel in a waterproof pouch. Attenuation deviations of greater than 5% from the shipping records shall be brought to the attention of the Engineer. The cable shall not be installed until completion of this test sequence and the Engineer provides written approval. Copies of traces and test results shall be submitted to the Engineer in a CD. If test results are unsatisfactory, the reel(s) of fiber optic cable shall be rejected. The rejected reel(s) of cable shall be replaced with new reel(s) of cable at the Contractor's expense. The new reel(s) of cable shall be tested upon delivery as described herein.

Cable continuity shall be verified using a visual light source, typically a 635-nm laser diode. For cables with insertion loss of less than 3 dB, the light source shall be the Corning Cable System OS-1 OOD test set, a RIFOCS 263A visual fault finder, or equivalent.

The continuity test procedure shall also be used to verify continuity on all fibers prior to measuring pre-installation attenuation using an Optical Time Domain Reflect-o-meter (OTDR). This insures that the fibers are completely continuous from end to end, since single-ended OTDR tests cannot reveal fiber discontinuities close to the cable endpoints.

7-8.6.6.3 Continuity Testing (after installation). These tests shall occur after the termination process has been completed. Each point-to-point link shall be tested for optical power loss with an OTDR in both directions. The connectors shall be identified by numbered colored tape, where each tape color shall be consistent throughout the project.

The Contractor shall use OTDR testing to insure that each fiber is one continuous length

(contains no splices within the cable structure) and meets the attenuation specifications of the manufacturer and cognizant industry standards. OTDR measurements made before the cable installation provide baseline data for comparison to post-installation OTDR tests. The OTDR test also provides useful measurements and documentation for the installed system. Therefore, OTDR traces shall be generated into a hard copy and software file on a CD for the purpose of developing historical as-built, documentation regarding the cable's condition before and after it was installed. The hard-copy and CD documentation shall be provided to the City. The recordings shall also be made part of and submitted as part of the Operations & Maintenance Manual.

If specialized software (i.e. other than Microsoft Office Products) is needed to access and read OTDR electronic test results, the Contractor shall provide licensed software to the City at no cost.

Prior to conducting OTDR tests, the Contractor shall provide the City with information regarding the test equipment to be utilized (manufacturer and model number) plus the equipment calibration procedures that will be utilized by the Contractor.

Quality tests shall consider both attenuation and localized loss discontinuities. The OTDR shall be equipped with a switchable, dual wavelength module with 1300 nm and 1550 nm light sources, and be compatible with single mode test fibers. The OTDR shall either be capable of writing to a floppy disk or configured with a plotter to provide a hard copy record of each test measurement. The OTDR shall be equipped with sufficient internal masking to allow the entire cable section to be tested. This may be achieved by using an optical fiber pigtail of sufficient length to display the required cable section, or by using an OTDR with sufficient normalization to display the required cable section. A hard copy XY plot shall be provided to the City for all fiber optic tests.

All traces shall display the entire length of cable under test, highlighting any localized loss discontinuities. The trace shall display fiber length (in meter/feet), fiber loss (dB), and average fiber attenuation (in dB/mile) as measured between two markers placed as near to the opposite ends of the fiber under test as is possible while still allowing an accurate reading. Time averaging shall be used to improve the display signal-to-noise ratio.

If connectors exist in the cable under test, then two traces shall be recorded. One trace shall record the fiber loss (dB) and average attenuation (dB/mile) of the entire cable link, including connectors. The second trace shall display a magnified view of the connector regions, revealing the connector losses (dB). All connector losses shall be measured using the Least Squares Approximation (LSA) or 5-point splice loss measurement technique.

The OTDR trace shall also include the following information:

1. The date and time of the test
2. The Cable ID number
3. The fiber color or ID number
4. The optical wavelength used for the test

5. The refractive index setting of the OTDR
6. The pulse width setting of the OTDR *The averaging interval of the test

Each connector shall be tested for optical loss using an OTDR. Measure each connector in both directions, at 1550 nm, for single mode connectors. An XY plot, from the OTDR, shall be provided for each connector measurement. Connector loss shall meet or exceed the requirements of the connector specifications. The OTDR shall be calibrated for correct index of refraction to provide proper length measurement for the known length of reference fiber.

7-8.6.7 Insertion Loss Testing (after installation). Insertion loss testing is performed after the cable has been installed, terminated with connectors, and connected to the patch panels. It is used to closely emulate the losses incurred in a fully assembled optical data link. It measures actual losses through connector panels and fiber cable. A light source from an insertion loss test set directly replaces the data transmitter at the output launch point and an optical power meter replaces the data receiver at the data receiver input port.

The Contractor shall conduct insertion loss testing on all installed and terminated optical fiber elements. Insertion loss test measurements for each fiber on each cable shall be documented by the Contractor and the results provided to the City. Testing shall be conducted at 1550 nm for all single mode cables. Total end-to-end loss for each fiber in each cable shall be within the fiber optic modem manufacturer's allowable loss budget specifications. If it is not, the Contractor shall take corrective measures to bring the cable link's insertion loss into compliance with the manufacturer's specifications, including re-mating and re-termination of the connectors, and/or replacement of the cable.

The Contractor shall provide the City with information regarding what type of test equipment will be utilized (manufacturer and model number) plus the equipment calibration procedures that will be utilized by the Contractor prior to conducting this test routine.

The test recordings for all fiber cables shall be provided on documentation sheets in a form to be determined by the City and submitted to the City within two (2) weeks after termination of the fiber elements. The recordings shall also be made part of and submitted as part of the Operations & Maintenance Manual, discussed elsewhere in these Special Provisions.

7-8.6.8 Insertion Loss Test Equipment (Fiber Optic Cable)

1. **Testing Light Source:** An LED laser light source with a wavelength equal to the operational system wavelength shall be used. The LED shall be stable within 0.1 dB in output power over a time period sufficiently long to perform the measurement.

2. **Launch Reference Cable:** It shall provide for attachment to the light source. The launch reference cable shall be of the same fiber size and type as the fiber under test. To eliminate cladding modes, a self-mode-stripping cable or a low loss (-0.5 dB) mandrel wrap mode filter shall be used.

3. **Power Meter:** The detector in the power meter shall have an effective numerical aperture (NA) and active area that is larger than the fiber under test. The power meter shall have

a sufficient measurement range to measure the insertion loss of the cable and connectors in the link. The power meter must be linear over the range of losses to be measured in the system and have sufficient resolution for the proposed measurements (0.05 dB). The power meter must be able to measure both absolute power in units of dBm and relative loss in units of dB. The power meter must also be able to change its calibration wavelength to match the system (1310 nm, or 1550 nm) operation wavelength. The meter shall be capable of measuring to -70 dBm.

7-8.6.9 Insertion Loss Test Procedures and Execution The Contractor shall provide all personnel, equipment, instrumentation and supplies as necessary to perform all testing.

- **Zero Reference Cable:** Connect the launch reference cable between the test light source and the power meter detector. Illuminate the reference cable and record the optical power as Ref. Power 1 in dBm.
- **System Insertion Loss:** The system to be tested shall be inserted between the launch reference cable and the power meter, completing the optical path from the LED to the power meter. Record the optical power shown on power meter as Test Power 1 in dBm. System Insertion Loss 1 is then calculated by the following equation: NOTE: Record insertion loss as a positive value.

7-8.6.9.1 System Insertion Loss 1 (dB) = Ref. Power 1 (dBm) - Test Power 1 (dBm). The system under test shall then be tested from the other end in a similar fashion as above. Here, record the output of the launch reference cable as Ref. Power 2 and the output of the system link as Test Power 2. System Insertion Loss 2 is calculated identically:

7-8.6.9.2 System Insertion Loss 2 (dB) = Ref. Power 2 (dBm) - Test Power 2 (dBm). The results of the insertion loss testing shall be recorded along with the test date, name of person performing the test, and the brand name, model number and serial number of the equipment used during the test. All results shall be made part of and submitted as part of the Operations & Maintenance Manual, discussed elsewhere in these Special Provisions.

7-8.6.9.3 Fiber Optic Cable Route Records. The Contractor shall provide the City with a cable route diagram indicating the actual cable route and foot marks, for all intersections, directional change points in the cable routing, and all termination points. The Contractor shall record these points during cable installation. Cable system As-Built drawings showing the exact cable route shall be provided by the Contractor to the City. Information such as the location of slack cable and its quantity shall also be recorded in the cable route diagram. This information shall be included as part of the Operations & Maintenance Manual. Each fiber connectors and patch panel connectors shall be tagged with its fiber number and associated field element location. Each tag shall be permanently attached by a nylon tie-lock to the cable or connectors.

7-8.6.9.4 #10 Green Wire. The Contractor shall furnish and install #10 green trace wire in all conduit segments, including all new and existing conduit segments where work is completed; excepting only those segments which consist of steel conduit. All #10 wires entering a pull box shall be joined by a wire-nut.

7-9 SALVAGING AND REINSTALLING ELECTRICAL EQUIPMENT

Salvaging and reinstalling or stockpiling electrical equipment shall conform to the provisions in Section 86-7, "Removing, Reinstalling or Salvaging Electrical Equipment", of the State Standard Specifications and these Special Provisions.

Salvaged electrical materials shall be hauled to and stockpiled at the City Yard, 8095A Lincoln Avenue. An appointment to drop off salvaged material shall be scheduled with the project inspector a minimum of 48 hours prior.

Signal gear to be relocated shall be painted per Section 86-2.16, of the State Standard Specifications.

7-10 PAYMENT

Payment for traffic signals and lighting shall conform to the provisions in Section 86-8.01, "Payment", of the State Standard Specifications and these Special Provisions.

The contract lump sum prices paid for traffic signals and lighting shall include payment for all necessary construction signing, traffic signs, painting of relocated signal gear, all Portland Concrete foundations, fiber optic equipment, vaults, delivery of salvaged electrical equipment, including poles, pickup and delivery of City Furnished equipment to the job site and sprinkler system(s) modification and repairs at the job site.

Full compensation for furnishing, installing, maintaining and removing temporary "Stop Ahead" and "Stop" signs, regardless of the number required, and for covering signs not in use shall be considered as included in the contract lump sum price paid for the signal item involved and no additional compensation will be allowed therefore.

Full compensation for hauling and stockpiling electrical materials shall be considered as included in the contract price paid for the item requiring the material to be salvaged, and no additional compensation will be allowed therefor.

PART 10

STANDARD DRAWINGS, DETAILS, AND MISCELLANEOUS SPECIFICATIONS

PUBLIC WORKS ENGINEERING STANDARD DRAWINGS

| TITLE | DRAWING NO. |
|---|-------------|
| THE LATEST PUBLIC WORKS STANDARDS MAY BE DOWNLOADED FROM THE FOLLOWING SITE: http://www.riversideca.gov/pworks/drawings.asp | Internet |

RIVERSIDE PUBLIC UTILITIES STANDARD DRAWINGS

| TITLE | DRAWING NO. |
|--|-------------|
| THE LATEST PUBLIC UTILITIES ELECTRIC STANDARDS MAY BE DOWNLOADED FROM THE FOLLOWING SITE: http://www.riversideca.gov/utilities/elec-ugconstruction.asp | Internet |
| THE LATEST PUBLIC UTILITIES WATER STANDARDS & SPECIFICATIONS MAY BE DOWNLOADED FROM THE FOLLOWING SITE: http://www.riversideca.gov/utilities/water-ugconstruction.asp | Internet |

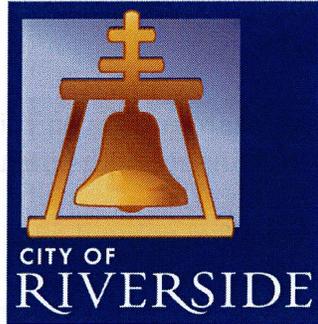
CALTRANS STANDARD PLANS

| TITLE | DETAIL NO. |
|---|------------|
| THE LATEST CALTRANS STANDARDS MAY BE DOWNLOADED FROM THE FOLLOWING SITE: http://www.dot.ca.gov/hq/esc/oe/project_plans/HTM/stdplns-US-customary-units-new06.htm (Caltrans Standard Plans used for this project will be 2006) | Internet |

MISCELLANEOUS DRAWINGS, NOTES, AND SPECIFICATIONS

| TITLE | LOCATION |
|---|----------|
| Public Utilities Electric Division Specification No. 2-6 | Attached |
| Public Utilities Water Division Specification No. 205 | Attached |
| Public Works Pedestrian Ramp Type VII Drawing | Attached |
| Temporary Construction Agreements | Attached |
| Best Management Practices for Typical Construction Activities | Attached |
| Geotechnical Report by GEO MAT, dated May 16, 2016 | Attached |
| Sample Public Notice Letter | Attached |
| Notice of Potential Claim Form | Attached |
| Exhibit "F" - Federal Funding Accountability And Transparency Act (FFATA) | Attached |
| HUD Requirements | Attached |

WATER | ENERGY | LIFE



PUBLIC UTILITIES

ENERGY DELIVERY DIVISION

RIVERSIDE, CALIFORNIA

**SPECIFICATION NO. 2-6
FOR**

STREET LIGHT CONSTRUCTION

By

PUBLIC UTILITIES DEPARTMENT
ELECTRIC DIVISION
RIVERSIDE, CALIFORNIA

Approved by T & D Committee
November 2014

Revised By: Steven Robles

Approved By: Espan M. Jr. 11/6/14
Principal Electric Engineer Date

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PART 1 - GENERAL PROVISIONS

1-1 DEFINITIONS

Engineer - Electric Engineering Manager of the City of Riverside, Public Utilities Dept., Electric Division or designated representative.

Luminaire - The lamp housing including the optical, socket, and ballast assemblies.

Street light - Street light assembly complete, including foundation, standards, luminaire arm, luminaire, etc.

Streetlight standard - The shaft or pole used to support the luminaire arm, luminaire, etc.

1-2 GENERAL

1-2.1 PLANS. All incidental parts which are neither shown on the plans nor otherwise specified, and which are necessary to complete the street lighting system, or are required for modifying existing systems, shall be furnished and installed as though such parts were shown on the plans or specified. All systems shall be complete and shall operate satisfactorily at the time of acceptance of the work.

The streetlights and appurtenances shall be located as shown on the plans. Any deviation must be approved by the Engineer.

1-2.2 REGULATIONS AND CODES. All electrical equipment shall conform to the standards of the National Electrical Manufacturers Association (NEMA). In addition to the requirements of the plans and specifications, all materials shall conform where applicable to the requirements of the National Electrical Code, hereinafter referred to as the Code; California Code of Regulations, Title 8, Subchapter 5, Electrical Safety Orders; Rules for Overhead Electrical Line Construction, General Order No. 95 and Rules for Construction of Underground Electric Supply & Communication systems, General Order No. 128 of the California Public Utilities Commission; Standards of the American Society for Testing and Materials (ASTM); American National Standards Institute (ANSI); the Insulated Cable Engineers Association (ICEA) and the Standard Specifications for Public Works Construction.

1-2.3 EQUIPMENT LIST AND DRAWINGS. The Contractor shall submit to the Engineer for approval a list of equipment and material which the Contractor proposes to install. This list shall be complete as to the name of the manufacturer, size and catalog number of unit; and shall be supplemented by such other data as may be required, including detailed scale drawings, any non-standard special equipment, and shall show any proposed deviation from the plans. The Contractor shall submit for approval, when requested, sample articles of any materials proposed for use. All such data shall be submitted in duplicate for checking. After checking, correction, and approval, not less than three complete sets shall be submitted to the Engineer. The Contractor shall be responsible for any material purchased, labor performed, or delay to the work prior to such approval.

Upon completion of the work, the Contractor shall submit a plan showing all construction changes.

The Contractor shall also furnish all literature and drawings which are received for the type of equipment to be installed, and which pertain to the engineering, installation, operation and maintenance of that equipment.

1-3 RESPONSIBILITIES OF THE CONTRACTOR IN THE CONDUCT OF THE WORK

1-3.1 PERMITS AND LICENSES. The Contractor shall obtain all permits and licenses necessitated by Contractor's operations, and give all notices necessary and incident to the due and lawful prosecution of the work and to the preservation of the public health and safety.

Prior to starting any work, the Contractor shall be required to be licensed in accordance with the provisions of Chapter 9 of Division 3 of the Business and Professions Code, and the Rules and Procedures of the California Contractors' State License Board and in good standing with the Board. Proof of such license shall be provided as required by Business and Professions Code § 7031.5. The Contractor must also have a current City of Riverside Business License and shall obtain a street opening permit from the City of Riverside, Public Works Department.

1-3.2 CLEANUP AND DUST CONTROL. Throughout all phases of construction and until completion of work, the Contractor shall keep the work site clean and free from rubbish and debris. The Contractor shall also abate dust nuisance by cleaning, sweeping and sprinkling with water, or other means as necessary. The use of water resulting in mud on public streets will not be permitted as a substitute for sweeping or other methods. Materials and equipment shall be removed from the site as soon as they are no longer necessary. Upon completion of the work and before final inspection the entire work site shall be cleared of equipment, unused materials and rubbish so as to present a satisfactory clean and neat appearance.

Care shall be taken to prevent spillage on haul routes. Any such spillage shall be removed immediately and the area cleaned.

Failure of the Contractor to comply with the Engineer's cleanup orders may result in an order to suspend work until the condition is corrected.

1-3.3 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS. The Contractor shall be responsible for the protection of public and private property adjacent to the work and shall exercise due caution to avoid damage to such property.

The Contractor shall repair, replace or relocate all existing improvements within the right-of-way which are not designated for removal (e.g., curbs, sidewalks, driveways, fences, walls, signs, utility installation, pavements, structures, sprinkler system, etc.) which are damaged or removed as a result of Contractors operations. Repairs and replacements shall be at least equal to existing improvements, and shall match them in finish and dimension.

Trees, lawns, and shrubbery that are not to be removed shall be protected from damage or injury. If damaged or removed because of the Contractor's operations, they shall be restored or replaced in as nearly the original condition and location as is reasonably possible. Lawns shall be re-sodded.

1-3.4 TRAFFIC. The Contractor shall comply with all regulations and requirements of the City of Riverside, Public Works Department, Traffic Division.

Access to business and residences will be maintained at all times. The temporary closure of existing accesses will be coordinated with all affected businesses not less than 48 hours prior to closure.

1-3.5 PROPER WORK METHODS. All Best Management Practices and Proper Work Methods will be closely observed while installing, removing or maintaining all street light facilities.

PART 2 - CONSTRUCTION MATERIALS

2-1 STREET LIGHTS. Size and type of standards, luminaire arms, luminaires, lamps, photo controls and foundations shall be as shown on the plans. Prestressed concrete poles shall conform to City of Riverside Public Utilities Department, Standard Specification No. 195.

2-2 ANCHOR BOLTS. Anchor bolts shall be of the type and size as shown on the plans. Anchor bolts shall conform to the specifications of ASTM A-307 and shall be provided with two nuts and two washers each. Anchor bolts, nuts and washers shall be galvanized by the hot-dip process conforming to ASTM A-153.

All nuts shall be symmetrically formed with the hole centered and at right angles to the face, tapped to fit a corresponding thread so that the nut can be run the entire length of the thread by the fingers without undue forcing, and without noticeable play or rocking.

2-3 CONDUIT. Size and type of conduit shall be as shown on the plans. It shall be the option of the Contractor to use larger conduit than that specified, provided that where such substitution is made, it shall be for the entire length of the conduit run. Reducing fittings are not permitted.

Maximum bend in a conduit shall be 90 degrees. Minimum radius of a factory bend shall be 18 inches. The maximum number of bends in any single run shall not exceed 270 degrees. If the run exceeds more than 270 degrees, a pull box shall be placed at a location designated by the Engineer and the run shall continue. Where under special conditions, factory bends are not used, conduit shall be bent, without crimping or flattening, to a radius of not less than 20 times the outside diameter of the conduit.

The ends of conduit shall be reamed to remove burred or rough edges. All threads shall be treated with lead plate before fittings are placed thereon. Where the galvanized coating of conduit or fittings has been damaged in handling or installing, such damaged areas shall be thoroughly painted with a rust preventive paint.

Ends of conduit shall be properly coupled. Running threads, threadless connectors or threadless couplings will not be permitted on steel conduit.

Galvanized conduit fittings shall be galvanized by the hot-dip electrodepositing or metallizing process in accordance with Subsection 210-3 of the Standard Specifications for Public Works Construction. Galvanized conduit shall conform to standards for rigid steel conduit as specified by Underwriters Laboratories, Inc., and shall bear the Underwriters' label on each length.

Semi-rigid plastic conduit when specified on the plans shall conform to City of Riverside, Public Utilities Department. Conduit shall have factory stamped markings noting NEMA TC-2, Sunlight Resistant, Overhead and Underground, 90 degrees C.

2-4 WIRE. Size and type of wire shall be as shown on the plans. Copper wire conductors shall conform to the applicable portions of ASTM B-3 and B-8. Aluminum wire conductors shall conform to the applicable portions of ASTM B-230, B-231, B-262 and B323.

Wire for multiple street lighting systems shall be AWG #8 CU in the Light Standard and in the runs rated for 600 volt operation and shall have either 75EC, THW, 4/64 inch, black polyvinyl chloride insulation or 75EC, XHHW, 3/64 inch, black cross linked polyethylene insulation conforming to I.C.E.A. & NEMA Standards. Wire for 120V system shall consist one black , one white and one green AWG #8 CU. Wire for 240V system shall consist of one black one red and one green AWG #8 CU.

2-5 PULLBOXES. Size and type of pullboxes shall be as shown on the plans. Pullbox covers shall be inscribed "TRAFFIC SIGNALS" for traffic signal systems or combined traffic signal and street light systems less than 600 volts, and "STREET LIGHTING" for street light systems less than 600 volts.

2-6 FUSE AND FUSE HOLDERS. Install a waterproof "In-Line" fuse holder on the phase leg conductor(s) in the base of each street light standard. Fuse holder to be "Bussman Tron" #HEB compatible with size and type of wire, with a "Bussman" FMN 10 Amp. 250V Fuse or approved equal.

2-7 WIRE MOLDS. Conductors in pull boxes shall be spliced together using approved Wire Molds.

PART 3 - CONSTRUCTION METHODS

3-1 EXCAVATION AND BACKFILL. The excavations required for the installation of conduit, foundations and other equipment shall be performed in such a manner as to cause the least possible damage to the streets, sidewalks and other improvements. The trenches shall not be excavated wider than necessary for the proper installation of the electrical equipment or foundations. Excavating shall not be performed until immediately before installation of equipment. Excavation shall not be left unfilled for a period exceeding two weeks. The material from the excavation shall be placed in a location to cause the least obstruction to surface drainage and vehicular and pedestrian traffic and shall not be left in the street.

Where pilot holes and jacking pits are excavated in parkways and lawns, the sod shall be removed and preserved by the Contractor. Upon backfilling and puddling, the sod shall be replaced, well tamped, and restored to original grade. Soil around the foundation cap shall be sloped a maximum 2:1 to match the grades. The Contractor may be required to reseed the aforementioned areas. Any excess excavated material will be properly disposed of off the site by the Contractor.

Where pilot holes, jacking pits and foundation locations are excavated in concrete sidewalk, cuts and joints shall conform with applicable provisions of Subsection 300-1.3 of the Standard Specifications for Public Works Construction.

After backfilling, excavations shall be kept well-filled and maintained in a smooth and well-drained condition until permanent repairs are completed.

At the end of each day, and at all other times when construction operations are suspended, all equipment, material and debris shall be removed from that portion of the right-of-way open for vehicular and pedestrian traffic. Barricades shall be erected at all excavations not backfilled or finished to final grade. The excavations will be covered with plywood or other suitable material of sufficient strength to support pedestrian and any other anticipated loads.

All excavations, including those resulting from removal of existing equipment as specified on the plans, shall be backfilled and the surface restored to match existing improvements.

Unless otherwise specified or approved by the Engineer, excavation in the street or highway shall be performed in such a manner that not more than one lane of traffic is restricted in either direction at any time. A Traffic Control Plan which conforms to the W.A.T.C.H. Manuel or the M.U.T.C.D and approved by Public Works will be on site at all times.

Specific approval from the City Traffic Engineer must be received before any lane of traffic is closed outside the hours of 8:30 AM to 4 PM.

3-2 FOUNDATIONS. All work shall conform to line, elevation and grade as shown on the plans or as established by the Engineer.

The longitudinal grade for the improvement shall be the same as the grade from the top of the existing curb. If there is no curb, the longitudinal grade will be established by the Engineer.

The transverse grades shall be established as follows:

- a) Existing curb and no sidewalk -- The grade shall slope upward from the top of the back face of the curb at the rate of 1/4 inch per foot.
- b) Existing curb and sidewalk -- The grade shall be a straight line from the top of the back face of curb to the top of the near edge of 5-foot sidewalks, and shall join all around in full-width sidewalk or sidewalk constructed adjacent to the curb.
- c) Service road parkways -- The grade shall be a straight line between the top of the back face of one curb to the top of the back face of the other curb.
- d) If the lateral grade of the existing parkway exceeds a slope of plus or minus 1 inch per foot, the contractor may be required to install retaining walls and aprons as directed by the Engineer.

The foundations shall be constructed in one pour of Class 560-C-3250 (*6 sack*) conforming to applicable requirements of Section 201 of the Standard Specifications for Public Works Construction and to shape dimensions shown on the plans. The bottom of the foundations shall rest securely on firm, undisturbed soil. When a firm footing cannot be obtained at the depth shown on the plans, holes shall be dug with a post hole auger or similar tool to extend the excavation to solid footing. Such holes shall be 4 in number, at the foundation corners, and not less than 6 inches in diameter. Where sand or soft material is encountered, the holes shall be cased with pipes 6 inches in diameter. The holes and foundation excavation shall be filled with concrete in one operation.

Where foundation cannot be constructed to standard dimensions because of an obstruction, the foundation shall be installed as directed by the Engineer.

Where forms are required because of soil conditions, they shall be true to line and grade, firmly braced and secured in place, and shall remain for 72 hours.

Foundations must cure at least 72 hours before street light standards are set in place.

Ordinary surface finish shall be applied to exposed surfaces of concrete. Wherever the edge of a concrete foundation extends within 18 inches of any existing concrete improvement, a slab with a minimum thickness of 3 inches shall be extended to meet such improvement.

The foundation cap shall be constructed of Class 560-C-3250 (6 sack), be 3ft. by 3ft. square by 4in. minimum depth and be poured separately, forming a "cold joint" in the sidewalk. The cap shall match the color and finish of the adjacent sidewalk.

Foundations caps located in parkways shall also be constructed of Class 560-C-3250 (6 sack), be 3ft. by 3ft. square by 4in. minimum depth and be brought to curb level. In both applications, sidewalk and parkway, all exposed nuts and bolts are to have grease applied to them before Foundation Cap is placed.

3-3 CONDUIT. All conduit placed by jetting, boring, or laid in open trench shall be not less than 18 inches or more than 36 inches below top of curb. A sufficient number of inspection holes shall be made by the contractor along the line of the conduit to insure proper depth of conduit and proper clearance of Utilities or conflicts. Inspection holes are to be used by the Construction Inspector to verify the depth of the bored conduit and the proper clearances from Utilities and/or other conflicts. Unless otherwise shown on the plans, the conduit shall be parallel with the curb, and shall enter the foundations parallel to the curb. Conduit shall be placed as close to the curb as practicable and not more than 24 inches behind the curb unless otherwise specified. When crossing under a roadbed, the conduit shall be placed not less than 24 inches or more than 48 inches below the flow line of the gutter or equivalent grade where no gutter exists.

Galvanized conduit shall be placed under existing pavement by approved jacking or drilling methods. Impact driving of conduit will not be permitted. When doing street crossings, pavement shall not be disturbed without the approval of the Engineer, and then only in the event obstructions are encountered. When approved by the Engineer, small test holes may be cut in the pavement to locate obstructions which shall be verified by the Construction Inspector. Jacking or drilling pit sites shall be subject to the approval of the Engineer. Excessive use of water which might undermine pavement, or soften subgrade, will not be permitted.

When galvanized conduit is placed, the ends of each conduit run shall be threaded and capped with standard pipe caps until the Contractor is ready to install the cable. When PVC conduit is placed, the ends of each conduit run shall have an appropriate end cap shall be placed until the Contractor is ready to install the cable. These pipe caps shall be replaced with acceptable conduit bushings before the cable is installed.

Conduit laid in open trench shall not be covered nor shall any trench or inspection hole be backfilled until the installation has been approved by the Construction Inspector. The exterior surface of the conduit which will be partially or completely imbedded in concrete structures shall be cleaned before concrete is placed.

Conduit ends and anchor bolts projecting from foundations shall be protected in such a manner as to prevent injury to pedestrians prior to setting of the standards.

Conduits terminating in street light standards or pull boxes shall not be transposed. Each conduit shall terminate as near the door of the standard as possible with the end of the conduit below, but within 1 inch of the height of the lower edge of the door. Conduits runs terminating in either a light standard or a pull box shall have an end bell placed on each conduit.

Conduits in pull boxes must be installed so that the prolongation of the conduit will pass through the top opening of the pull box. Ends of conduits shall terminate at least eight inches below the bottom of the pull box cover.

Extra conduit stubs for future use shall extend no less than 18 inches from the face of the foundation in the direction shown on the plans and shall be capped with appropriate standard pipe caps which are to be glued in place on both ends.

Prior to installation of cable, the Engineer shall require that Mule Tape, 1200LB, be placed through all conduit runs for light standards. "Tic" numbers are to be documented and verified for each

conduit run in the Construction Inspectors presence.

The end of any conduit terminating without a pull box at any point in back of a curb shall be identified and be noted as to location and depth from a known landmark on the Contractors "As-Built".

3-4 PULLBOXES. Pullboxes shall be installed with the long side parallel to and a minimum of 4 inches back of the back face of curb. The transverse grade shall be established in Section 3-2. Pull boxes shall not be installed in any part of a driveway unless otherwise specified.

The bottom of the pull box shall rest firmly on a 12-inch thick bed of 3/4" crushed rock extending 6 inches beyond the outside edges of the pull box.

In cases where an existing galvanized conduit is being intercepted, knockout openings, through which conduit enters pull boxes, shall be sealed with grout after conduit installation. To facilitate work, the Contractor may install at Contractor's expense any additional pullboxes not shown on the plan at locations approved by the Engineer.

3-5 STREET LIGHTS. Plumbing of street light standards shall be accomplished by adjusting the nuts on the anchor bolts before the foundation is finished to final grade. Shims, or other similar devices for plumbing or raking, will not be permitted.

3-6 CABLE

3-6.1 GENERAL. Cable shall be sufficient length to extend 3 feet beyond the outside base opening of the street light or pull box.

Each lead shall be coiled in as large a circle as possible in the base of all street lights or pull boxes.

All ends of installed conductors and cables shall be taped to exclude moisture, and shall be so kept until the connections are made.

3-6.2 INSTALLATION. To insure the safety of the cable and to protect the sheath from abuse and rough usage, the cable shall be pulled into the conduit directly from the original spool or reel, using as a lubricant high performance gel polymer solution (HPGP), or other lubricant approved by the Engineer. Cable shall be pulled into the conduit by hand, or by other methods approved by the Engineer. The conductor and sheath shall be so connected to the pulling wire or cable as to equalize the stress on each.

Cables shall be installed in continuous lengths between street light standards and/or pullboxes. Cable splices will not be permitted in conduits.

3-7 BONDING AND GROUNDING. All street lighting systems shall provide for electrical ground continuity.

Systems installed with metallic conduit shall have all conduit, street lights, metal cased external ballasts and all other metallic appurtenances to the system bonded to each other.

When shown on the plans systems installed with plastic conduit shall include the installation of a continuous conductor bonding together all street lights, metal cased external ballasts and all other metallic appurtenances to the system. **This bond wire will not be used as a neutral. The street light circuit shall be used for street lights only.**

Bonding conductor shall be AWG Size No. 8. All connections shall be made using UL approved ground clamps and brass nuts and bolts. One bonding conductor in each concrete street light base shall be looped up to the level of 2 inches above the bottom of the hand hole opening **and will be identified with green tape.** Once in each block or at intervals not to exceed 500 feet along the plastic conduit run, the bonding conductor system shall be securely grounded to a driven 5/8" x 8' copper or copper clad ground rod having its upper end not more than 3 inches above the conduit.

3-8 SERVICE POINTS. Service points shown on the plans for street lighting systems may be subject to change. The contractor shall obtain the exact service point and riser location from the Engineer. The contractor shall furnish and install conduit and conductors to the service point as shown on the plans. All service points on wood poles shall have a galvanized sweep at the pole base connected to galvanized pipe installed to 8'-1" above grade.

Before starting work on existing street lighting circuits, the Contractor shall obtain daily safety circuit clearance from the serving utility.

The Contractor shall maintain service to all existing lamps except as directed by the Engineer.

When shown on the plans, existing systems requiring relocation shall be maintained so as to have existing lighting levels remain in operation nightly. The Contractor may elect to install temporary lighting, equal to or better than existing lighting levels, in-lieu of maintaining existing lighting systems. Temporary lighting systems shall be approved by the Engineer.

3-9 SPLICES. Conductors shall be joined by the use of a connector approved by the Engineer. Splices in the pull box shall be placed in approved wire molds. Splices in the light standard shall be made using wire nuts which shall then be covered with layers of 3m Super 88 thermoplastic electrical insulating tape conforming to Federal Specifications MIL-I-7798, applied to a thickness equal to and well lapped over the original insulation. The splice shall be capable of satisfactory operation under continuous submersion in water. Spliced cable will not be permitted in conduit.

Conductor insulation shall be roughened before applying splice insulation. Splice insulation shall consist of layers of thermoplastic electrical insulating tape, 3M Super 88, conforming to Federal Specifications MIL-I-7798, applied to a thickness equal to and well lapped over the original insulation.

3-10 INSPECTIONS. All work and materials are subject to inspection and approval of the Construction Inspector during all phases of construction. The Contractor shall notify the Construction Inspector 48 hours before inspection is required. The Contractor shall be solely responsible for notifying the Construction Inspector where and when such work is in readiness for inspection. Should such work be covered without inspection and approval, it shall be uncovered, inspected, approved and redone at the Contractor's expense. If work is cancelled for the following day, the contractor must notify the Construction Inspector before noon on the day prior to the day

of cancelled work.

All materials shall be new and unused, unless specified otherwise on the plans, and shall be subject to inspection after delivery to the job site and during installation. Failure of the Engineer to note faulty materials or workmanship during construction shall not relieve the Contractor of the responsibility for removing or replacing any such material at Contractor's expense.

When required by the Engineer, inspection or sampling of certain materials may be made at the factory or warehouse prior to delivery to the job site.

Materials which have been rejected prior to delivery shall not be delivered to the job site and all material which has been rejected at the job site shall be removed from the site immediately.

Prior to completion of the work, the Contractor shall cause the following tests to be made in the presence of the Engineer on all lighting circuits:

- a) A functional test in which it is demonstrated that each and every part of the system functions as specified or intended herein.
- b) All lighting equipment shall be energized under as near actual service conditions as possible for three successive nights. During the second night of the test, all circuits shall be patrolled at least once by the Contractor and any inoperative equipment replaced.

Any fault in any material or in any part of the installation revealed by these tests shall be corrected by the Contractor in a manner approved by the Engineer and the same tests shall be completed again.

3-11 REMOVAL, ABANDONMENT, AND SALVAGE. The Contractor shall not remove or de-energize any existing street light systems without authorization of the Engineer.

REMOVAL. Street light facilities shown on the plans to be removed shall become the property of the Contractor and shall be removed from the job site, and any salvage value shall be reflected in the Bid.

ABANDONMENT. Street light facilities shown on the plans to be abandoned shall be left in place by the Contractor. Foundations to be abandoned in place shall have the top of the foundation, anchor bolts and conduits removed to a depth of 2 feet below finished grade and the resulting hole backfilled with materials equivalent to the surrounding or proposed surrounding materials. In some cases, it may be required that the entire foundation may need to be removed in its entirety. This shall be done at the discretion of Public Works.

SALVAGE. Street light facilities shown on the plans to be salvaged shall be removed and delivered by the Contractor to the City yard at 8095 Lincoln Ave. All salvaged facilities shall remain the property of the City.

The Contractor shall exercise care in removing facilities to be re-used or salvaged so that they will remain in the condition existing prior to their removal. The Contractor will be required to replace, at contractors expense, any facilities damaged during removal when such equipment is designated for re-use or salvage.



CITY OF RIVERSIDE

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

SPECIFICATION NO. 205

**FOR THE DESIGN AND INSTALLATION
OF POTABLE WATER DISTRIBUTION SYSTEMS**

PAGES 28, 63-64, 66-68, AND 70 ONLY

SEPTEMBER 2014

SECTION 210 - PAINT AND PROTECTIVE COATINGS

210-1.5 Paint Systems/ Painting Schedule

Painting Schedule. All paint and protective coatings shall be holiday free. The following paint schedule shall apply to Water Division facilities:

| No. | Application | Primer | Paint |
|-----|-----------------------|-------------------------------------|---|
| 1 | Gate Box Caps & Rims | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Safety Blue or City Approved |
| 2 | Air Valves | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust/Oleum, Dunn/Devoe, Forest Green or City Approved |
| 3 | Fire Hydrants | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Safety Yellow or City Approved |
| 4 | Blowoff Hydrants | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Safety Yellow/Safety Blue |
| 5 | Air Valve Guard Posts | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Forest Green |
| 6 | Hydrant Guard Posts | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Safety Yellow |
| 7 | Locating Guard Posts | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Safety Yellow |
| 8 | Steel Vault Lid | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Soft Grey |
| 9 | Above Grade Piping | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, San Tan |
| 10 | Curb Markings | 1 coat, Red, Rust-Oleum, Dunn/Devoe | 2 coats of Rust-Oleum, Dunn/Devoe, Safety Blue |

Miscellaneous Appurtenances - "Tnemec" Pota-Pox Plus series 140F epoxy coating, or City approved equal.

All paint and protective coatings shall be holiday free.

- Suppliers:
 - (1) Dunn Edwards, Riverside – (951) 784-1758
 - (2) Glidden Professional, Riverside – (951) 274-7888
 - (3) Vista Paint, Riverside - (951) 689-2501

All the above paints, with the exception of red and black primer shall be **industrial strength**. "SprayCan" application will be allowed for the blue marking paint only. A minimum thickness of 5 mils shall be attained after the final paint coat has dried.

own expense, shall repair all bonds that fail the continuity test and shall retest those sections for continuity.

306-9.3 Valve Installations

~~1. The Contractor shall install the valves at the locations shown on the Plans and Standard Drawings. The Plans shall indicate the station, size and type of all mainline valves. The Standard Drawings shall indicate such information for appurtenant installations.~~

~~2. Valves shall be installed in a level position with the operating stem vertical except where shown otherwise on the Plans.~~

~~3. After installation of the mainline pipe is completed, the Contractor shall apply one coat of Koppers #50, or City approved equal, bitumastic coating to damaged areas of buried valves and shall wrap the entire valve with two layers of 8 mil polyethylene and seal all seams with 2-inch wide #50 Scotchwrap tape.~~

~~4. Valves shall be stabilized and supported separately from the pipeline as shown on the Plans or on the Standard Drawings. Mainline valves shall be considered as a dead end for thrust block sizing.~~

~~5. Mainline and appurtenant valves shall be tested for leak-proof tightness after the main line has been pressure tested, at the test pressure.~~

~~6. "Valve Location Ties" shall be made by City Forces either in accordance with Section 306-9.8 in these Special Provisions or as a white 4" x 4" witness post set at the property line.~~

~~7. The Contractor shall install valve boxes at all valve locations except where shown otherwise on the Plans. All valves shall be installed in conformance with Appendix A of AWWA C-500.~~

~~8. Butterfly valves shall be installed with the valve operator on the "up station", right side of the valve.~~

306-9.4 Valve Box Installations

1. The Contractor shall install valve box cap and rim, and valve operator extensions of the type indicated in the Standard Drawings at each valve location shown on the Plans.

2. Operator extensions and sleeves shall be centered and set plumb over the valve operator nut.

3. Shaft extension is required where the distance between the finished ground surface to the valve operator nut is greater than 3.5 feet.

4. Operator extensions shall be fitted with an AWWA 2-inch square operating nut and a tapered socket end for the valve operating nut. The extension shaft shall extend from the valve nut to within 18-inches of the finished ground surface.
5. Operator extension shaft, nut, socket and centering guide shall be painted with one coat of primer after fabrication.
6. The valve box caps shall be set flush to 1/4" above the finished pavement surface.
7. Where valve box or Manhole installations are not within paved areas, a 6-inch thick concrete pad, 520-A-2500, 24-inches greater in diameter shall be formed around the appurtenance.
8. The valve box cap shall be painted per paint schedule, Section 310-1.1.1.
9. Valve box caps shall fit securely in the slip sleeves, to prevent displacement due to traffic loads.

306-9.4.1 Valve Box Adjustments

Valve boxes within an area to be paved will be set to the finished pavement grade by the Contractor after paving of the street. Repaving required as the result of adjusting the valve boxes to grade shall be the responsibility of the Contractor.

306-9.5 BLOW-OFF INSTALLATIONS

- ~~1. The piping between the outlet valve and the pumper riser shall be at a continuous downgrade of not less than 1/4-inch per foot.~~
- ~~2. Where blowoff manholes are placed in sidewalk areas, the sidewalk shall be saw-cut and removed to the nearest score line. The manhole cover and rim shall be set to sidewalk grade and the sidewalk replaced.~~
- ~~3. Where blowoff manholes are placed in unpaved areas, the cover and rim shall be set flush with the existing edge of pavement or as directed by the Engineer.~~
- ~~4. The manhole cover and rim shall be Alhambra Foundry A-1252, diamond thread finish and lettered CWD.~~
- ~~5. The manhole cover and rim shall be painted per paint schedule, Section 310-1.1.1.~~
- ~~6. The blind and mating flange shall be painted with two (2) coats of primer paint.~~

306-9.5.1 Temporary Blowoff Installations

- ~~1. Temporary blow-offs may be used for pressure testing, flushing and disinfecting~~

~~2. Portland Cement shall be Type II. Concrete shall be Class 450-C-2000, shall be poured against undisturbed soil and shall make positive contact with the pipe with a minimum thickness of 12 inches.~~

~~3. Sandbags may be used to form thrust blocks or anchors unless otherwise specified.~~

~~4. Concrete shall be placed such that bell ends of fittings shall be available for repairs. Concrete placed over joints shall be removed.~~

~~5. Structural steel exposed directly to the soil shall be coated with Koppers #50 bitumastic coating, or a City approved equal, prior to pouring the thrust blocks.~~

306-9.9 CURB MARKINGS

“Location ties” for valves and blow-offs shall be marked by the Contractor with a 2" x 1/2" wide "+" using blue marking paint on the **top** of the closest curb from two (2) locations. One edge of the "+" in the direction of the tie shall be elongated 1" with the distance from tie to curb face shown in 2-inch high lettering. One set of the Plans shall be marked with the locations and dimensions and submitted to the Engineer upon completion of the Work. “Location Ties” shall be installed by City Forces.

The locations of all services shall be marked with a chiseled "+" on the **curb face**. The pipe line station and length of service from corporation stop to angle stop shall be "As Built" on the Plans and submitted to the Water Division Inspector. The "+" shall be grinded in the curb by the Contractor at the time of construction. The grind "+" shall be 2" high by 2" wide and 1/8" deep.

306-9.9.1 Abandoning Curb Markers

~~After the existing water valves have been abandoned, the Contractor shall remove existing painted "Location Ties" to the satisfaction of the City. All stray markings shall be removed by Contractor.~~

306-9.11 WATER AND FIRE SERVICE WET TAP VALVE INSTALLATIONS

~~1. Valves shall be installed in conformance with Section 306-9.3.~~

~~2. Tapping tee and valve shall be disinfected per Section 700-5.~~

~~3. Contractor shall pressure test the tapping sleeve and gate valve per Section 700-2, prior to tapping main.~~

~~4. Contractor or subcontractor shall have a State of California Class A, C-34, or C-61 (Water Main Drilling) contractor's license and shall submit to the Engineer for approval, a minimum of three references from prior potable water wet tapping projects.~~

306-9.12 SERVICE INSTALLATIONS

- ~~1. The Contractor shall install water or fire services at the locations shown on the Plans in accordance with Standard Drawings.~~
- ~~2. The Plans shall indicate the water service station, size, direction and location of the meter box.~~
- ~~3. The Contractor shall place the service connection to the mainline within 18 inches of the desired location, and spaced a minimum of 2 feet on center.~~
- ~~4. The Contractor may open cut or "shoot-in" service laterals for copper services.~~
- ~~5. Splicing of copper tubing is not allowed, except where 2-inch copper services exceed 20 feet in length and then only the minimum number of joints. Two inch copper splices shall be made using a solder coupling.~~
- ~~6. Saddles shall be used for all service connections of 2-inches or less.~~
- ~~7. Where meter boxes are located in sidewalk areas, a meter spacer and meter coupling shall be installed and a sleeve of sufficient diameter shall be laid beyond the sidewalk prior to sidewalk installation.~~
- ~~8. Due to a change in the Driveway (D/W) Approach Standard 302 by the PW department to conform with ADA requirements, the placement of the meter boxes are revised as follows:~~

~~Where the meter box falls with a D/W approach and the sidewalk being installed is curb sidewalk, (this is Type Curb-I typical section), the front of the meter box needs to be placed 3 feet from the back of the curb. This will allow the box to fit in the flat sidewalk area of the D/W. The service run and angle ball meter stop will need to be set back accordingly. Ultimately, the Public Works inspector will need to make final acceptance of these installations.~~

306-9.13 PRECAST VAULT, MANHOLE & METER BOX INSTALLATIONS

1. The Contractor shall install precast vaults, manholes and meter boxes at the locations shown on the Plans or Standard Drawings.
2. The Plans or Standard Drawing shall indicate the station, location and size of the installation.
3. Cement for vault and manhole footings shall be Type II. Concrete shall be 480-B-2000, and poured against undisturbed or well compacted soil to the dimensions shown on the Plans or Standard Drawings.

4. All vaults and meter boxes located in sidewalk or paved areas shall be set flush with the existing surface.

306-9.14 CONNECTIONS TO EXISTING MAINS

~~The Water Division will make all wet-tap connections to existing mains (except large services installed by contractor) and make closures thereto unless otherwise shown on the Plans.~~

~~The Contractor shall verify the station, offset, and depth of the existing connection prior to laying the last 100 feet toward that station.~~

~~The Contractor shall make necessary cut-to-fit, adjusting line and grade as necessary.~~

~~After the chlorination and pressure tests have passed inspection, but prior to final paving, the system connection closures will be made by the City of Riverside Field Forces unless specified otherwise on the plans. **If City Forces have to make corrections to the line or grade to make the system connections then all labor and materials to perform the work shall be charged to the Contractor.**~~

306-10 PROTECTIVE COATING

~~All ferrous metal fittings and joints (valves, couplings, flanges, etc.) in contact with the soil shall be coated with one coat of Koppers #50 bitumastic after assembly to the main-line pipe and shall be wrapped with two layers of 8 mil polyethylene which shall be secured to the pipe with two-inch wide Scotchwrap #50 or City approved equal.~~

306-11 FIRE HYDRANT INSTALLATIONS

- ~~1. The Contractor shall install fire hydrants at the locations shown on the Plans in accordance with Standard Drawings.~~
- ~~2. The Plans shall indicate the outlet station, type, direction and location of the fire hydrant assembly.~~
- ~~3. The lateral between the outlet valve and the Fire Hydrant bury shall be a continuous run of all ductile iron pipe with approved joints.~~
- ~~4. The Contractor shall use non-breakaway flanged spools to adjust the Fire Hydrant to proper grade.~~
- ~~5. Fire Hydrant shall be painted per Section 310.~~
- ~~6. The bolts used to attach the Fire Hydrant to bury shall be counterbore knock off bolt type. Bolts shall be installed with threads pointing up and pack the counter bore with no-oxide grease, silicon, or approved equal.~~

~~Potholes for detector loop stub-outs shall be capped with asphalt over silica sand. Hot-melt rubberized asphalt sealant shall be used for detector loop installation. No exceptions.~~

~~It shall be the responsibility of the Contractor to lay out and mark the pavement surface for all detector loop installations. Loop layout(s) shall be approved by the Traffic Engineer 48 hours prior to saw cutting. Loop lead-in cable and loop wire leads shall be marked to identify the area and/or lane of detection served, as directed by the Traffic Engineer. Payment for replacement of distributed traffic signs, traffic loops, all labor, materials, tools, equipment, and incidentals shall be included for the item involved and no additional compensation will be allowed.~~

SECTION 310 - PAINTING

310-1 General

Refer to Section 210-1.5 for description of color designation and approved manufacturers.

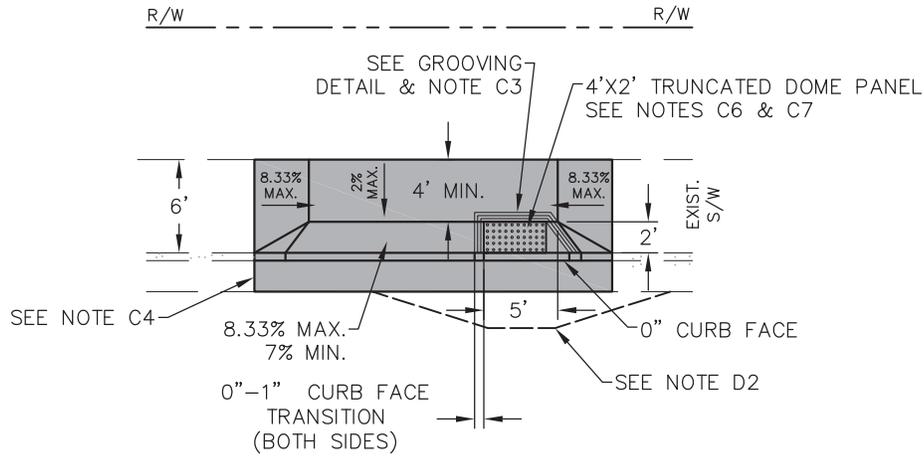
310-1.1.1 Painting Schedule

| <u>Item</u> | <u>Color (1)</u> | <u>No. of Coats</u> |
|------------------------|--------------------|---------------------|
| Gate Box Caps and Rims | Red (primer) | 1 |
| | Blue | 2 |
| Air Valves | Red (primer) | 1 |
| | Green | 2 |
| Guard Posts | Red (primer) | 1 |
| | Yellow w/ Blue Top | 2 |
| Fire Hydrants | Red (primer) | 1 |
| | Yellow | 2 |
| Curb Markings | Blue | 1 |

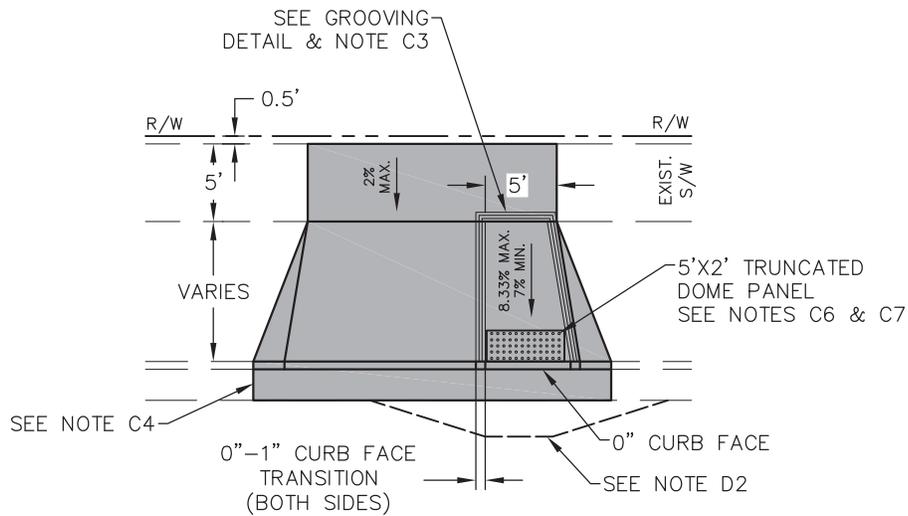
310-5.6 Painting Traffic Striping, Pavement Markings and Curb Markings

310-5.6.1 General

~~Striping and pavement markings for temporary detours and pavement restoration, shall conform to the provision of Sections 210, "Paint and Protective Coatings" and 310-5.6 "Painting Traffic Striping, Pavement Markings, and Curb Markings" Pavement Markings and Curb Markings" of the Standard Specifications and these special provisions. Striping~~



TYPE VII @ MID-BLOCK DWY
 W/ CURB SIDE SIDEWALK
 (REFER TO STD. DWG. 302 FOR DWY)
 (SEE STD. DWG. 304 FOR NOTES REFERENCED HEREON)



TYPE VII @ MID-BLOCK DWY
 W/ PROPERTY LINE SIDEWALK
 (REFER TO STD. DWG. 302 FOR DWY)
 (SEE STD. DWG. 304 FOR NOTES REFERENCED HEREON)

CITY OF RIVERSIDE

PUBLIC WORKS DEPARTMENT

PEDESTRIAN RAMP TYPE VII

TO ACCOMPANY CITY STD. 304

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Armando Rivera and Rosa M. Rivera, husband and wife, as joint tenants
(Herein referred to as "Grantor")

Project: 2015/2016 CDBG Street and ADA Footpath project
Por. APN: 206-281-016
Address: 4519 Coppermine Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 206-281-016**, being approximately **155 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of driveway ramps, match-up driveway paving, and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for **twelve (12) months** after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

ARMANDO RIVERA
4519 COPPERMINE ST.
RIVERSIDE, CA
909-938-9348

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

By: 
 David Welch
 Real Property Services Manager

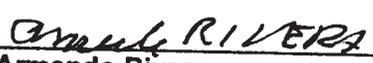
Date: 7-25-2016

APPROVED AS TO FORM:

By: 
 Deputy City Attorney

APN 206-281-016 ROETCA

GRANTOR

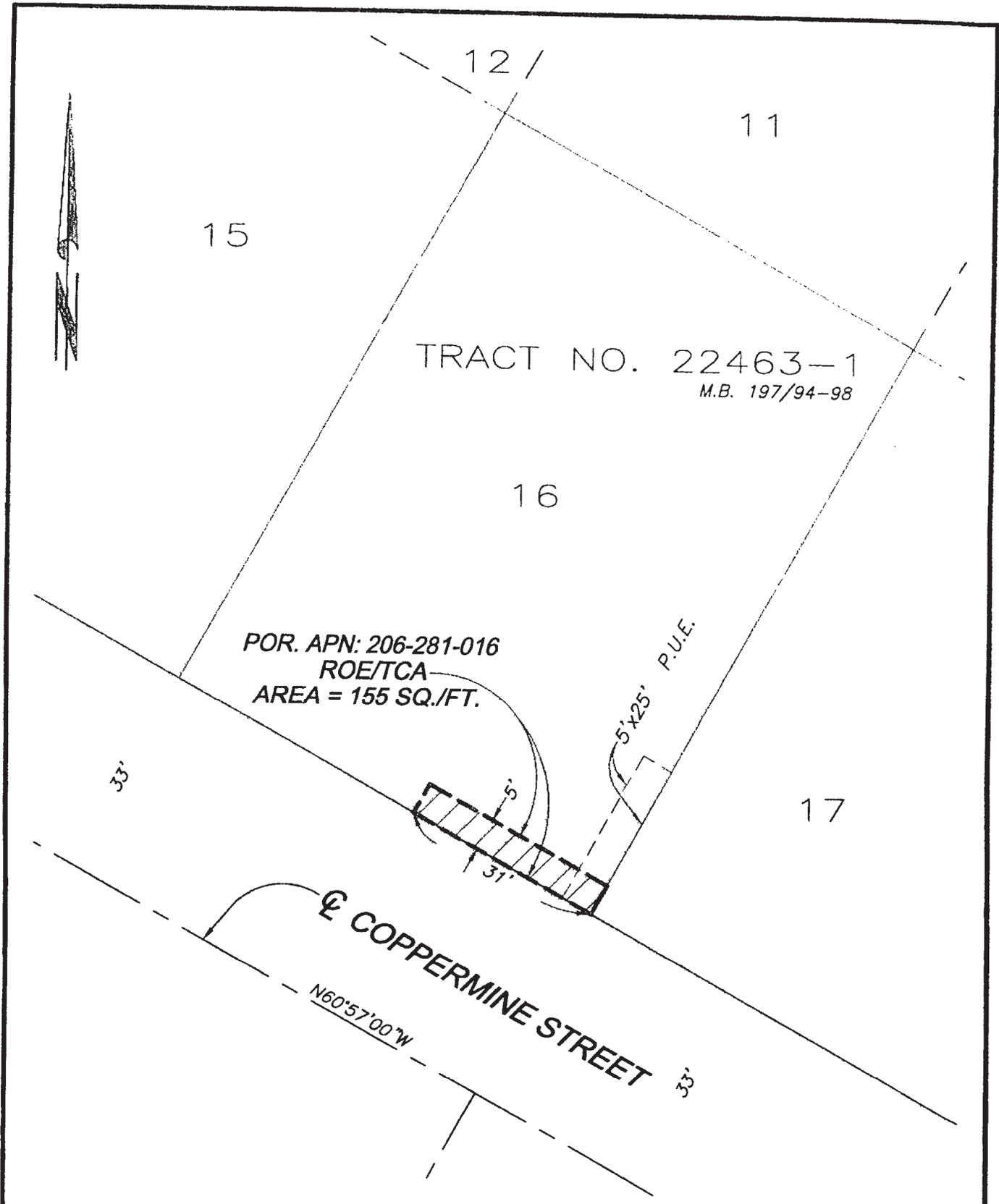

 Armando Rivera


 Rosa M. Rivera

Date: 7-8-16

ATTEST:

By: 
 City Clerk



● CITY OF RIVERSIDE, CALIFORNIA ●

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20'

DRAWN BY: EV DATE: 5/11/16

SUBJECT: 2015-2016 CDBG PROJECT

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Rodney Shimabukuro and Lupe Shimabukuro
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-009
Address: 3928 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-009**, being approximately **126 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

Grantor

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Contact Name: Lupe Shimabukuro
Mailing Address: 3928 Stotts St.
Riverside, CA
Phone No.: 951-687-5048
Email: _____

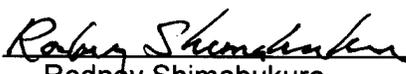
2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

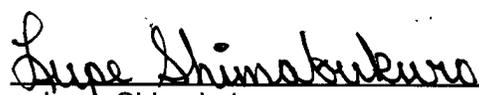
CITY OF RIVERSIDE

By: 
 David Welch
 Real Property Services Manager

Date: 7-25-2016

GRANTOR


 Rodney Shimabukuro

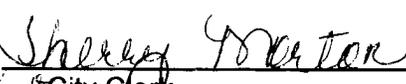

 Lupe Shimabukuro

Date: 7-14-16

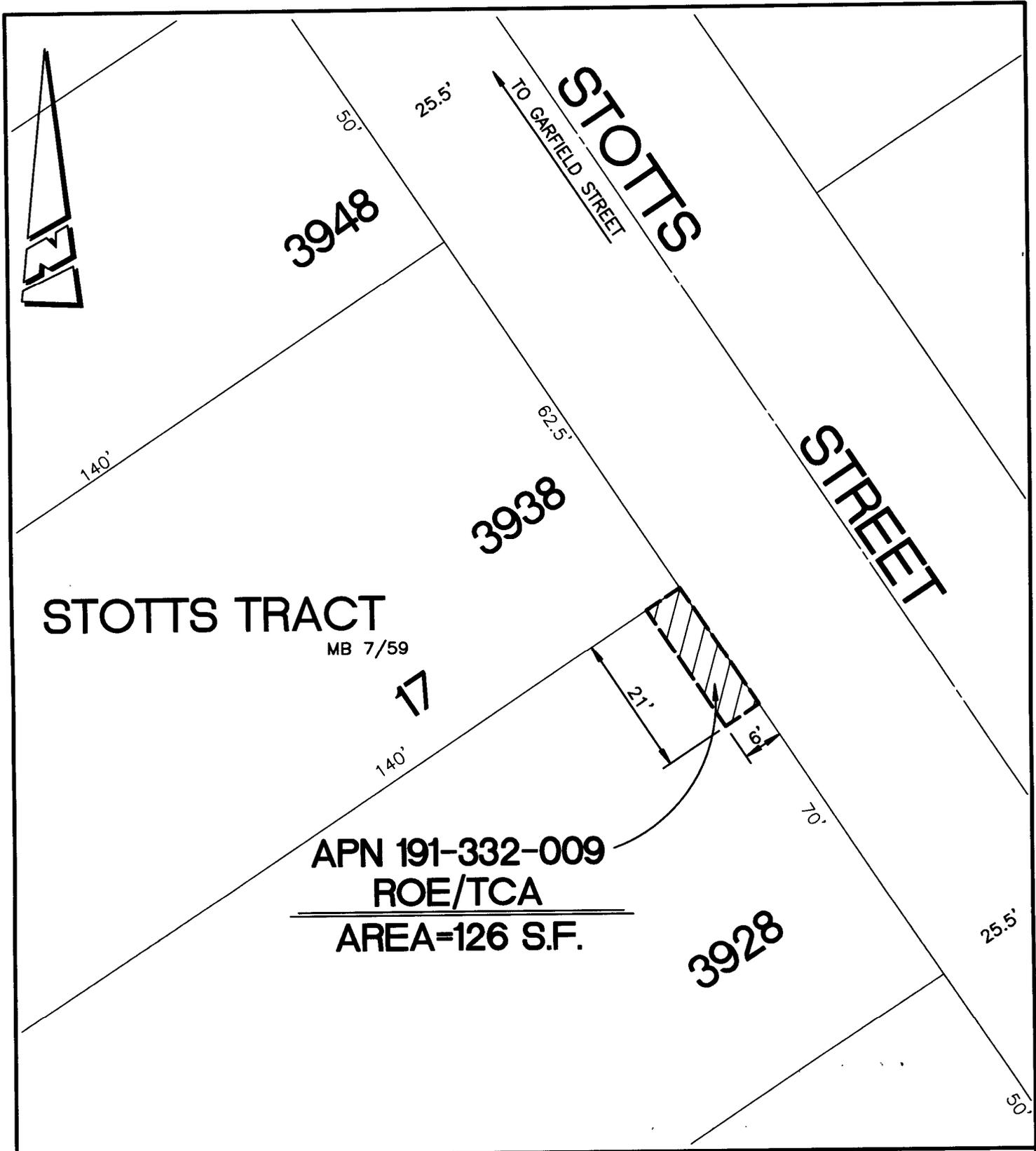
APPROVED AS TO FORM:

By: 
 Deputy City Attorney

ATTEST:

By: 
 City Clerk

Date: August 1, 2016



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20' DRAWN BY: CURT DATE: 6/28/16 SUBJECT: 3928 STOTTS ROE/TCA - APN 191-332-009

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Lupe Shimabukuro
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-008
Address: 3938 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-008**, being approximately **144 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

Lupe Shimabukuro
3938 Stotts St.
Riverside CA
951-9273

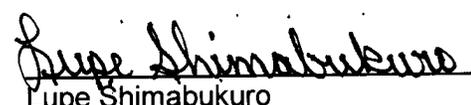
2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's

property in the process of performing such activities.

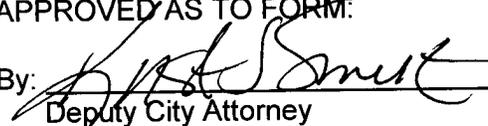
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

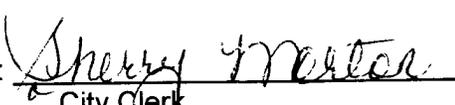
CITY OF RIVERSIDE
 By: 
 David Welch
 Real Property Services Manager

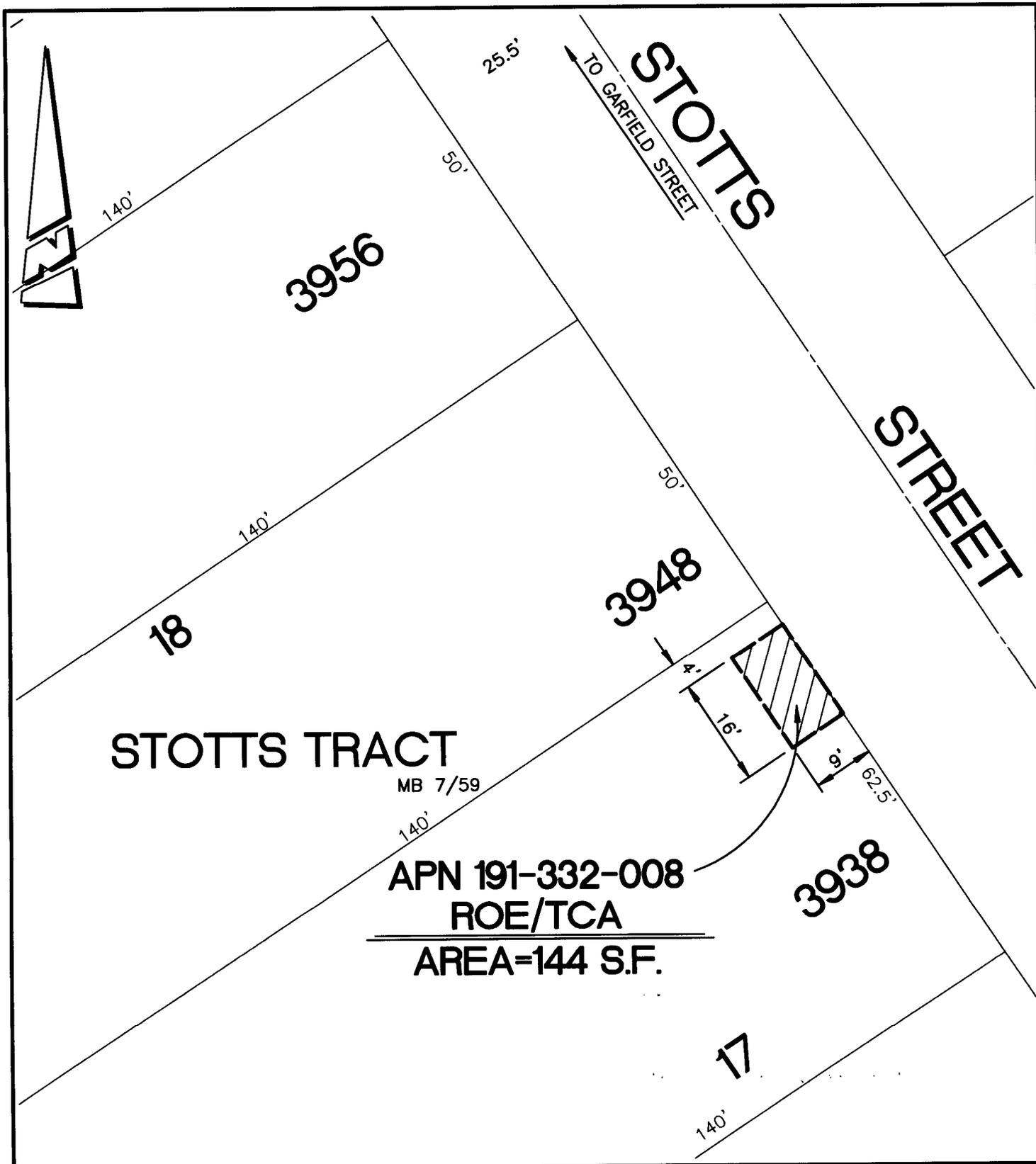
Date: 7-25-2016

GRANTOR
 Date: 7-14-16

 Lupe Shimabukuro

Date: 7-14-16

APPROVED AS TO FORM:
 By: 
 Deputy City Attorney

ATTEST:
 By: 
 City Clerk
 Dated: August 3, 2016



STOTTS TRACT

MB 7/59

APN 191-332-008

ROE/TCA

AREA=144 S.F.

• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20'

DRAWN BY: CURT

DATE: 6/28/16

SUBJECT: 3938 STOTTS ROE/TCA - APN 191-332-008

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Martin A. Green, a single man
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-006
Address: 3956 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-006**, being approximately **144 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

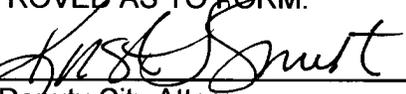
Contact Name:
Mailing Address:
Phone No.:
Email:

MARTIN GREEN
3956 STOTTS ST.
Riverside, Ca. 92503
310 699-4525

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

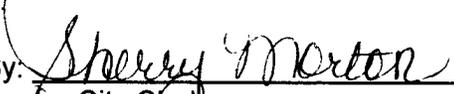
CITY OF RIVERSIDE
 By: 
 David Welch
 Real Property Services Manager

Date: 7-25-2016

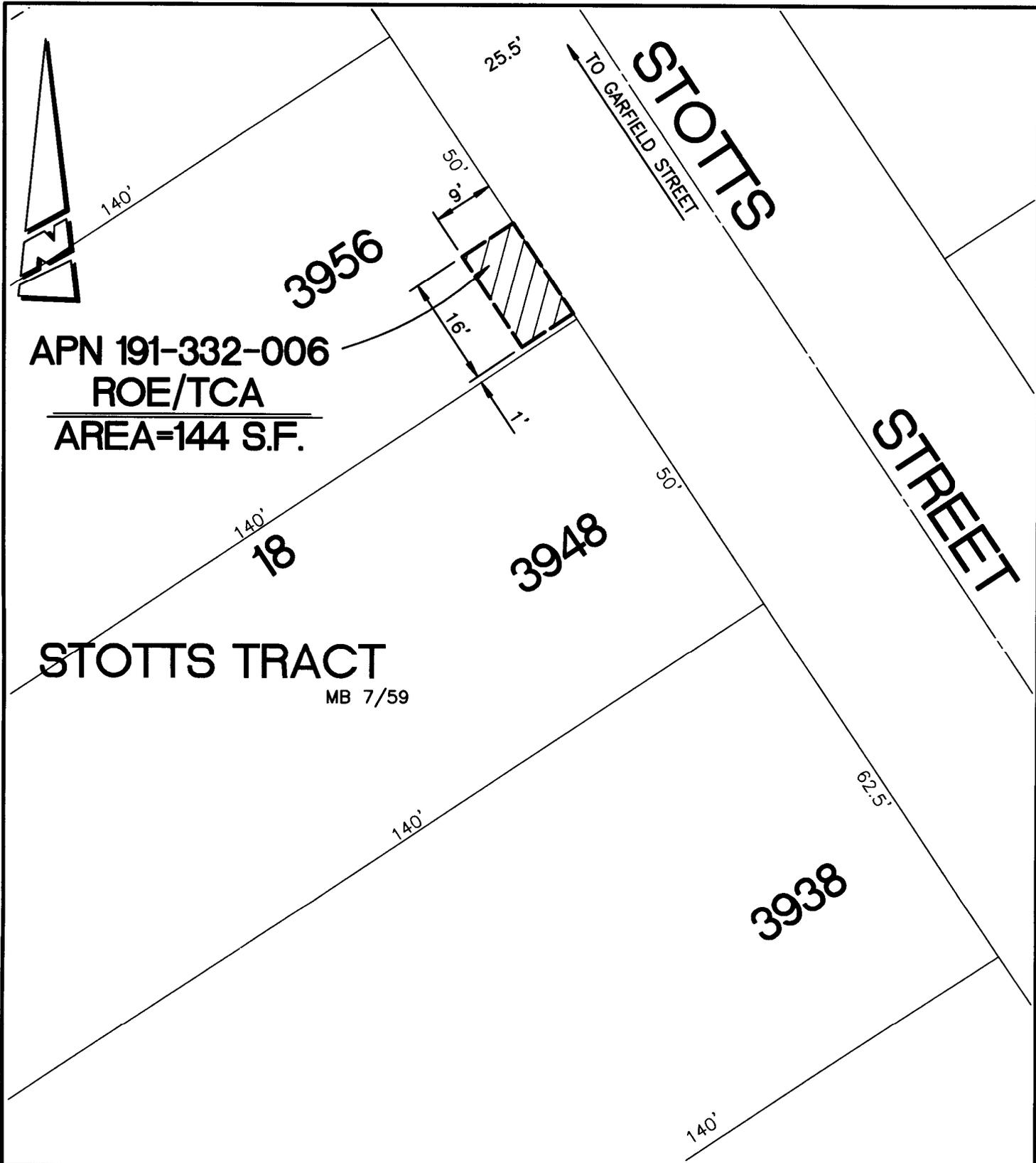
APPROVED AS TO FORM:
 By: 
 Deputy City Attorney

GRANTOR
 By: 
 Martin A. Green

Date: 7/7/16

ATTEST
 By: 
 City Clerk

Dated: August 3, 2016



APN 191-332-006
ROE/TCA
AREA=144 S.F.

STOTTS TRACT
 MB 7/59

• **CITY OF RIVERSIDE, CALIFORNIA** •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20'

DRAWN BY: CURT

DATE: 6/28/16

SUBJECT: 3956 STOTTS ROE/TCA - APN 191-332-006

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Shawn Tucker, a single man
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-005
Address: 3964 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-005**, being approximately **176 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

Shawn Tucker
3964 Stotts St
Riverside, CA 92503
951-544-2010
Tuck'sdaytona@hotmail.com

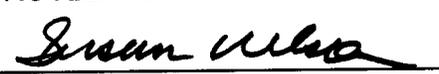
2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

By: 
David Welch
Real Property Services Manager

Date: 8-17-16

APPROVED AS TO FORM:

By: 
Deputy City Attorney

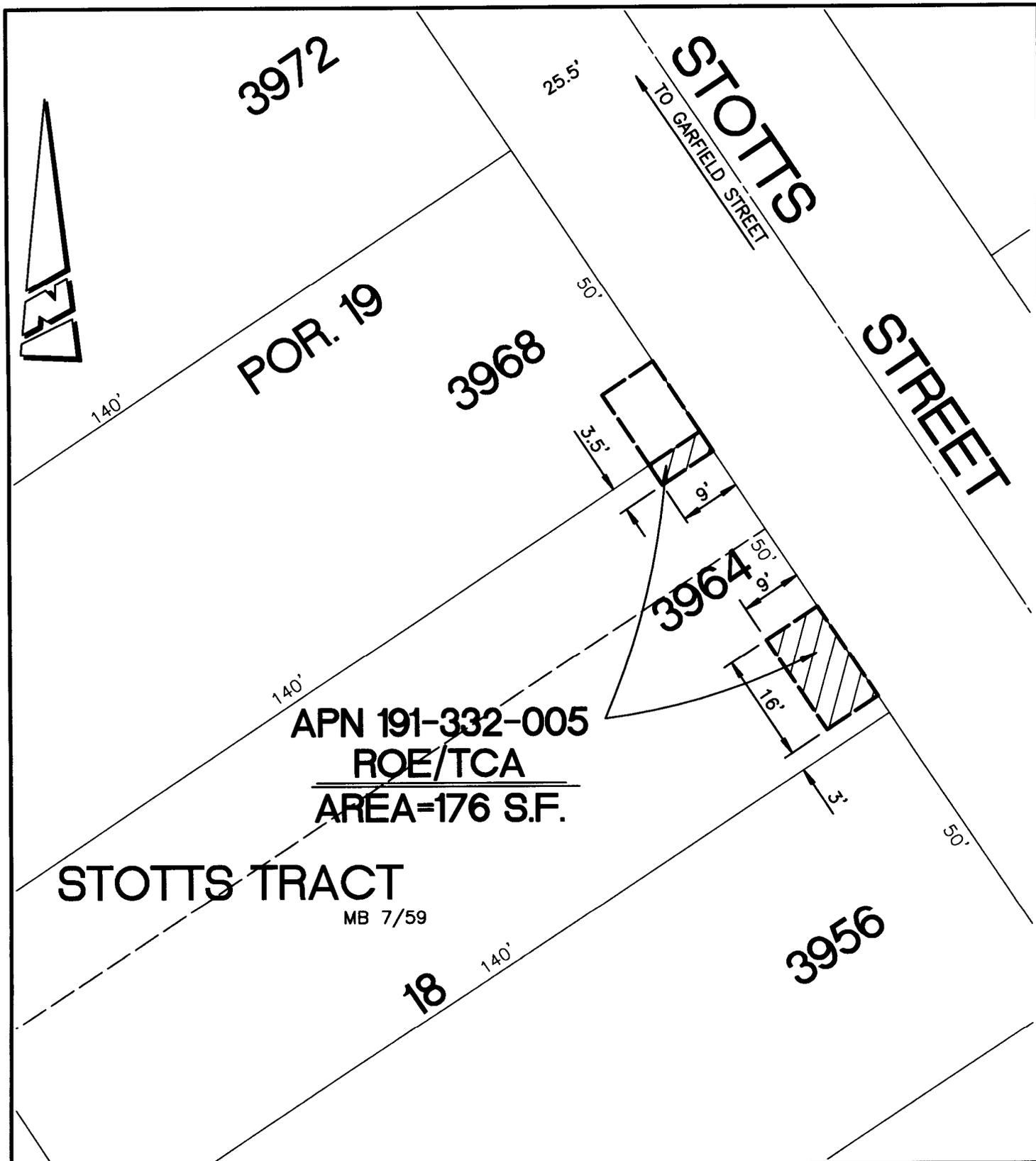
GRANTOR

By: 
Shawn Tucker

Date: 8-8-16

ATTEST:

By: 
City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20'

DRAWN BY: CURT

DATE: 6/28/16

SUBJECT: 3964 STOTTS ROE/TCA - APN 191-332-005

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Lydia Ann Holthaus, as Successor Trustee of the Tony Fuertez Living Trust established, March 9, 2005
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-004
Address: 3968 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-004**, being approximately **113 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

Lydia A. Holthaus
3968 STOTTS ST
RIVERSIDE CA 92503
951-689-6544

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

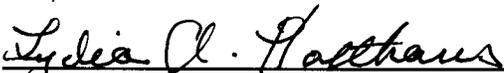
By:  _____

David Welch
Real Property Services Manager

Date: 7-25-2016

GRANTOR

Lydia Ann Holthaus, as Successor Trustee of
the Tony Fuertez Living Trust established,
March 9, 2005

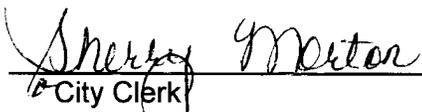
By:  _____
Lydia Ann Holthaus, Successor Trustee

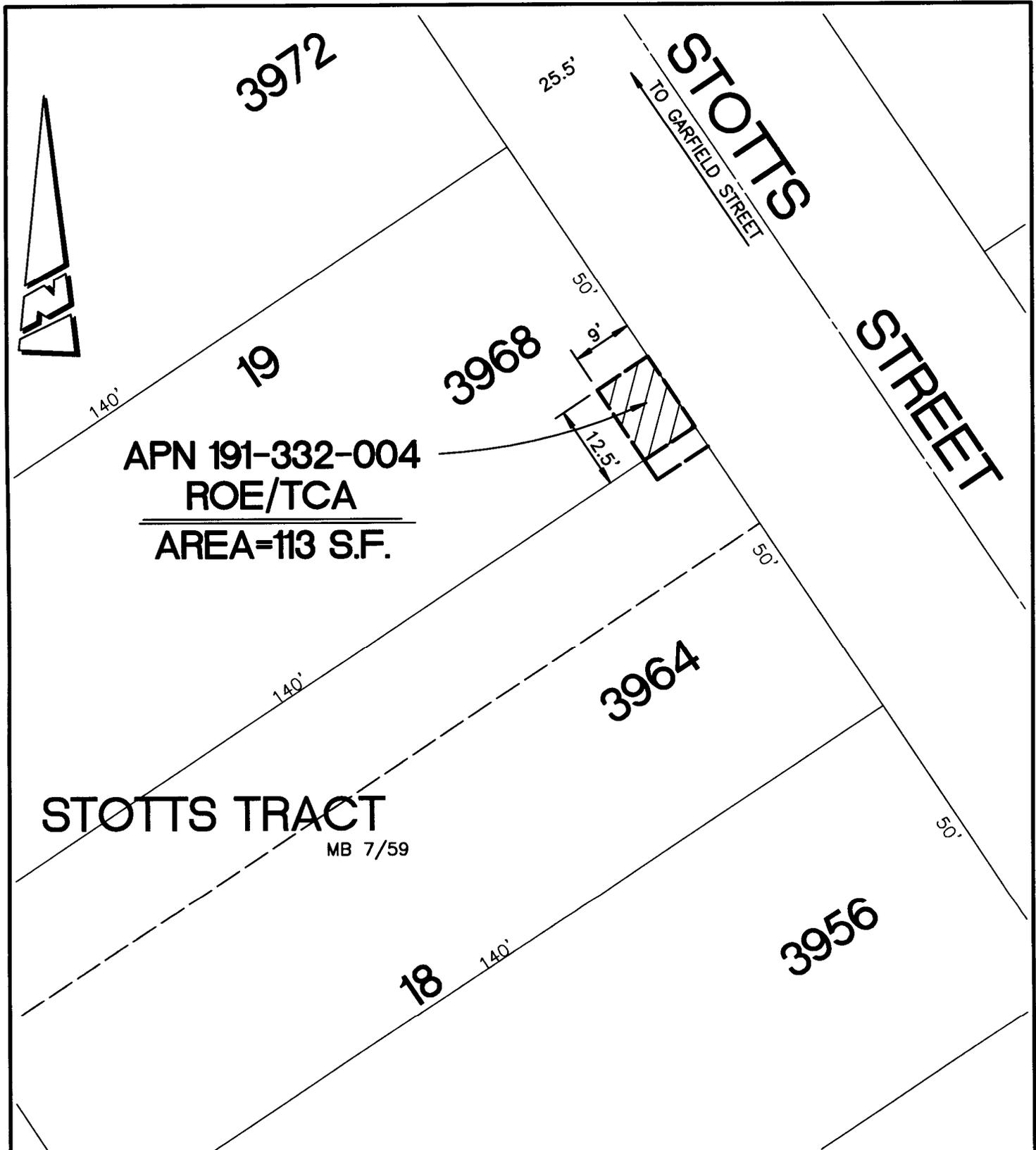
Date: 7-7-16

APPROVED AS TO FORM:

By:  _____
Deputy City Attorney

ATTEST:

By:  _____
City Clerk



APN 191-332-004
ROE/TCA
 AREA=113 S.F.

STOTTS TRACT
 MB 7/59

• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20'

DRAWN BY: CURT

DATE: 6/28/16

SUBJECT: 3968 STOTTS ROE/TCA - APN 191-332-004

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Annechristine Seymour, as Trustee of the Annechristine Seymour Trust dated April 15, 2005
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-003
Address: 3972 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-003**, being approximately **135 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

A. Seymour
3972 Stotts Street
Riverside,
689-7684

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

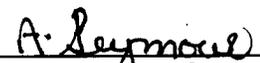
CITY OF RIVERSIDE

By: 
 David Welch
 Real Property Services Manager

Date: 7-25-2016

GRANTOR

Annechristine Seymour, as Trustee of the
 Annechristine Seymour Trust dated April 15,
 2005

By: 
 Annechristine Seymour – Trustee

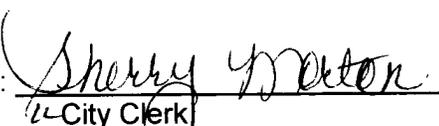
Date: 7-7-2016

APPROVED AS TO FORM

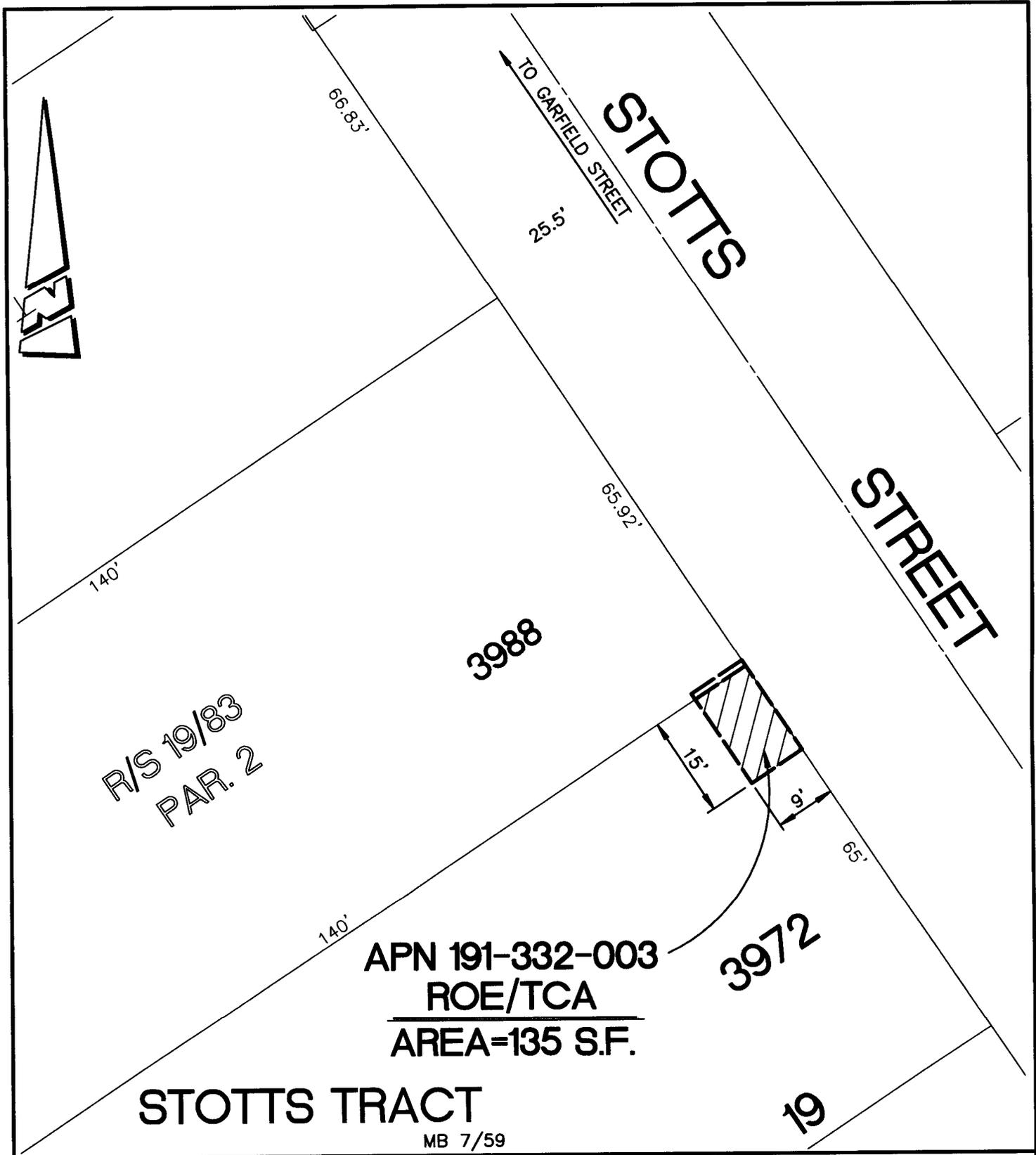
By: 
 Deputy City Attorney

191-332-003 ROE-TCA.doc

ATTEST:

By: 
 City Clerk

Dated: August 3, 2016



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20'

DRAWN BY: CURT

DATE: 6/28/16

SUBJECT: 3972 STOTTS ROE/TCA - APN 191-332-003

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Barbara K. Holohan as Trustee of the Holohan Family Revocable Living Trust, utd October 4, 1990
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 191-332-002
Address: 3988 Stotts Street

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as a portion of **APN 191-332-002**, being approximately **225 square feet**, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for twelve (12) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

BARBARA HOLOHAN
19051 MEMBERTON PL.
RIV 92508
951 206-1368
barbara.book1ad@calphotos.com

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

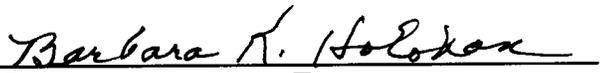
CITY OF RIVERSIDE

By: 
 David Welch
 Real Property Services Manager

Date: 7-25-2016

GRANTOR

Barbara K. Holohan as Trustee of the Holohan Family Revocable Living Trust, utd October 4, 1990

By: 
 Barabra K. Holohan – Trustee

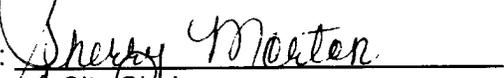
Date: 7-14-16

APPROVED AS TO FORM:

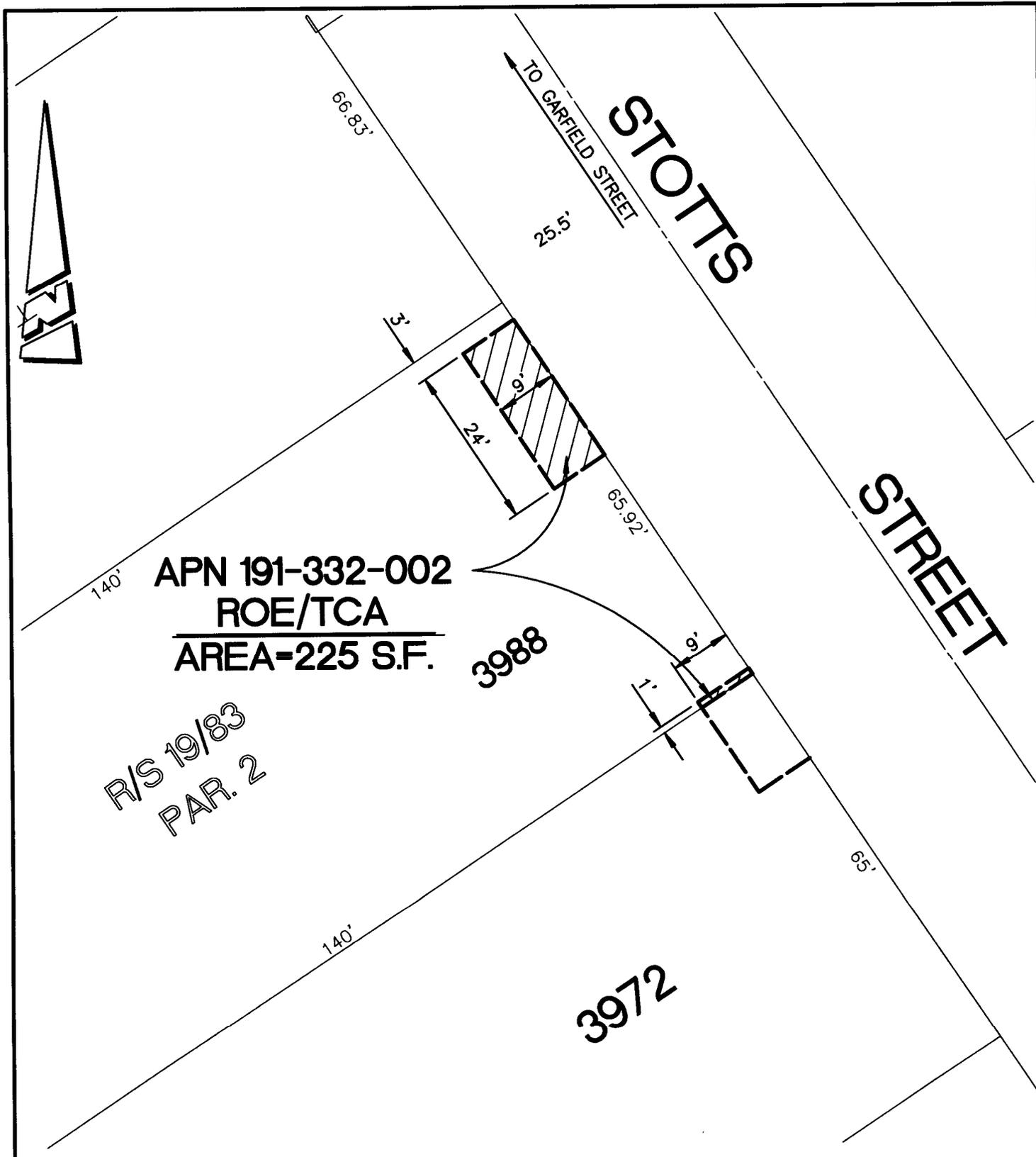
By: 
 Deputy City Attorney

191-332-002 ROE-TCA.doc

ATTEST:

By: 
 City Clerk

Dated: August 3, 2016



APN 191-332-002
ROE/TCA
 AREA=225 S.F.

R/S 19/83
 PAR. 2

3988

3972

STOTTS

STREET

TO GARFIELD STREET

• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=20' DRAWN BY: CURT DATE: 6/28/16 SUBJECT: 3988 STOTTS ROE/TCA - APN 191-332-002

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Michael Anthony Alvarez
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-029
Address: 8440 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-029, being approximately 100 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

Michael Alvarez
8440 Sylvan Dr.
Riverside, CA 92503
951-642-0573

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

By: 
David Welch
Real Property Services Manager

Date: 8-17-16

GRANTOR

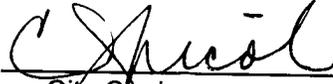

Michael Anthony Alvarez

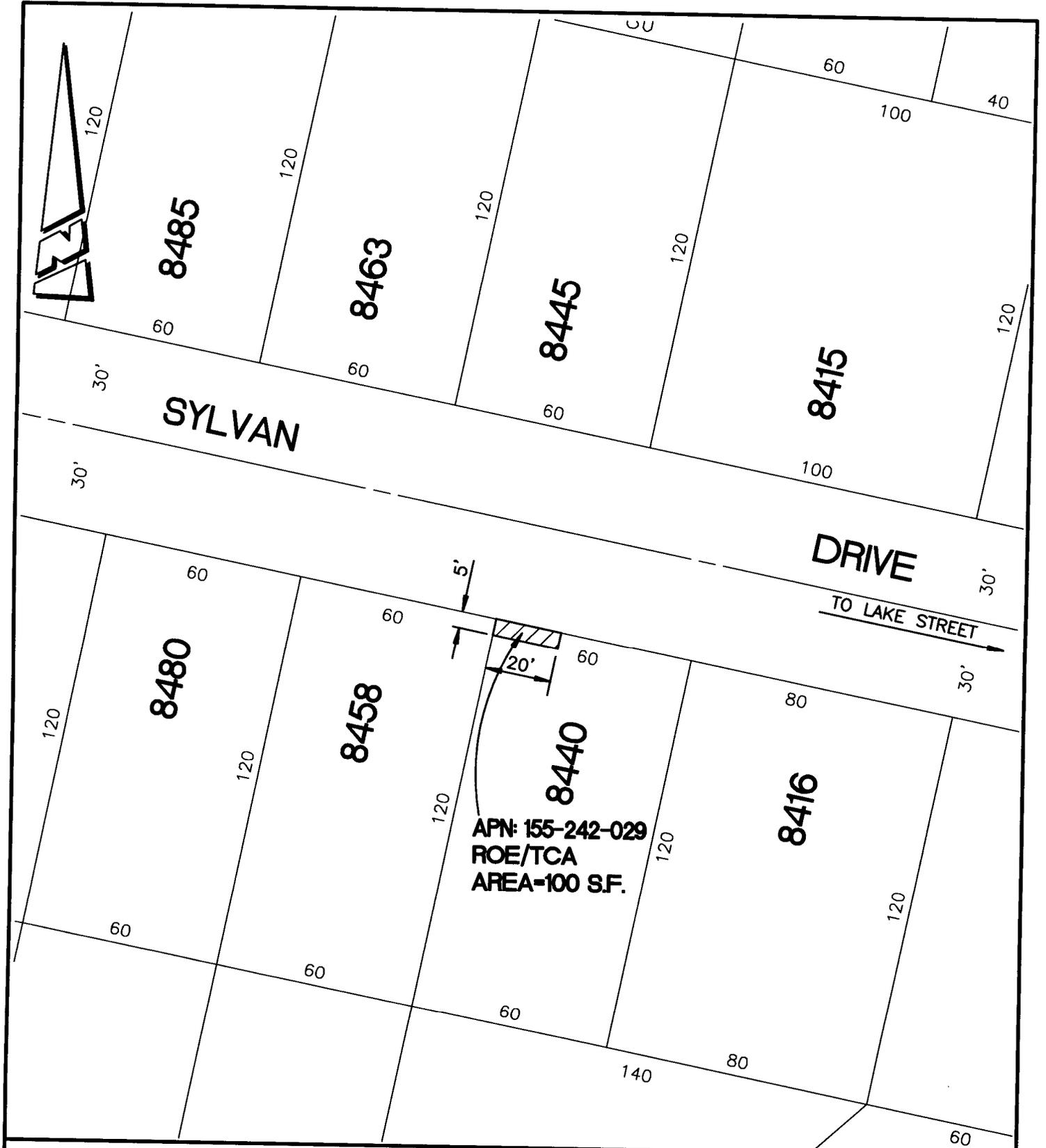
Date: 8-8-16

APPROVED AS TO FORM:

By: 
Deputy City Attorney

ATTEST:

By: 
City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/27/16

SUBJECT: 8440 SYLVAN DRIVE ROE/TCA - APN 155-242-029

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Emilio S. Santiago
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-028
Address: 8458 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-028, being approximately 76 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

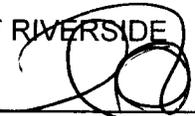
City

Grantor

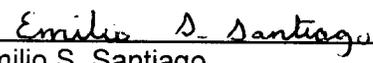
City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Contact Name: Emilio Soto Santiago
Mailing Address: 1111 North 220 West
01pm, UT 84057
Phone No.: (951) 254-8529
Email: _____

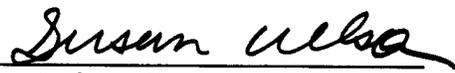
2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE
By: 
David Welch
Real Property Services Manager

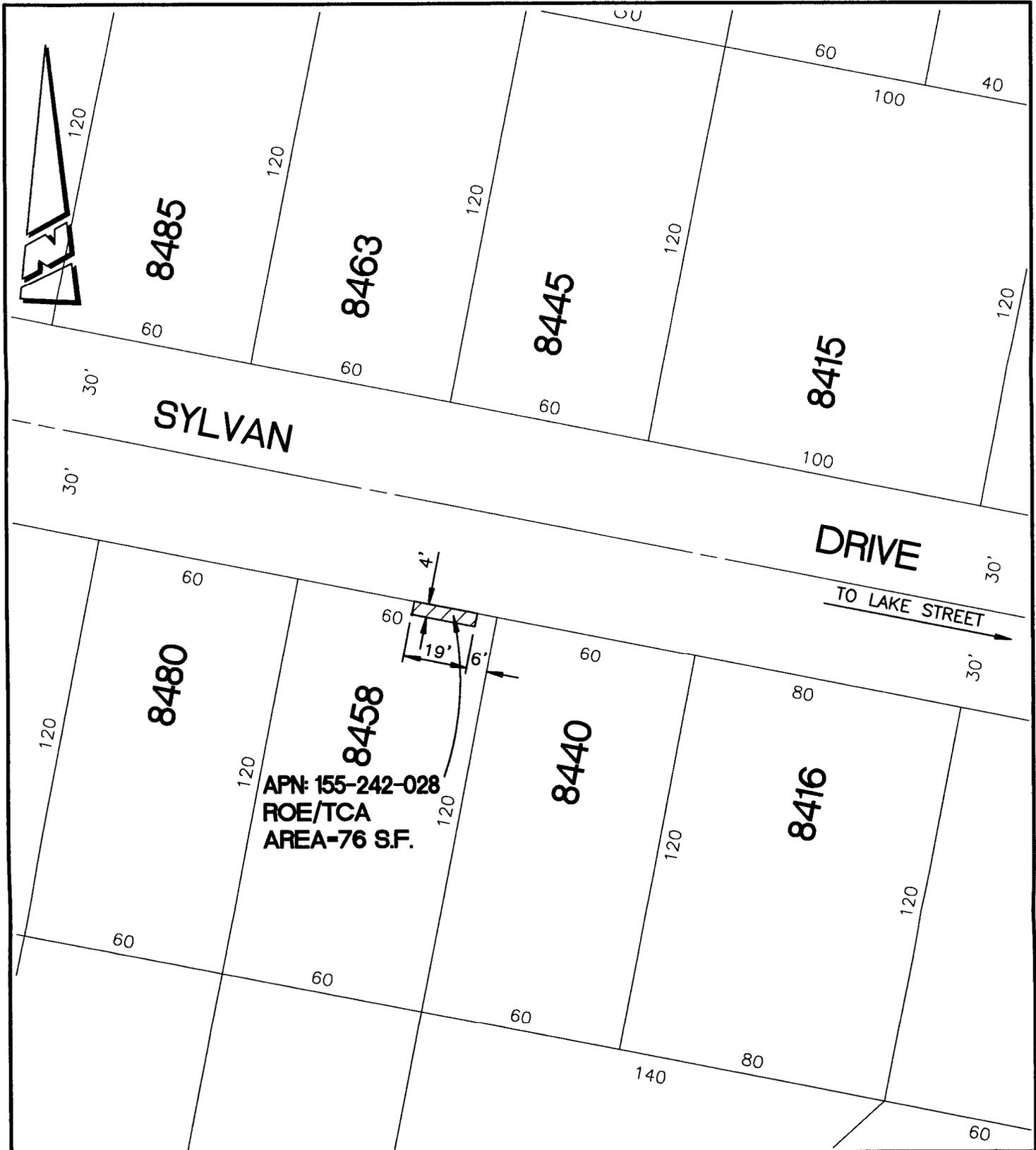
Date: 8-17-16

GRANTOR

Emilio S. Santiago

Date: 8-6-16

APPROVED AS TO FORM:
By: 
Deputy City Attorney

ATTEST:
By: 
City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/27/16

SUBJECT: 8458 SYLVAN DRIVE ROE/TCA - APN 155-242-028

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Duane E. Ballard and Peggy J. Ballard
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-026
Address: 8500 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-026, being approximately 225 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

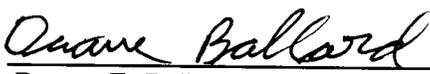
DUANE E. BALLARD
8500 SYLVAN DRIVE
RIVERSIDE, CA 92503
951-689-6188

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

By: 
 David Welch
 Real Property Services Manager

GRANTOR

By: 
 Duane E. Ballard

By: 
 Peggy J. Ballard

Date: 8-17-16

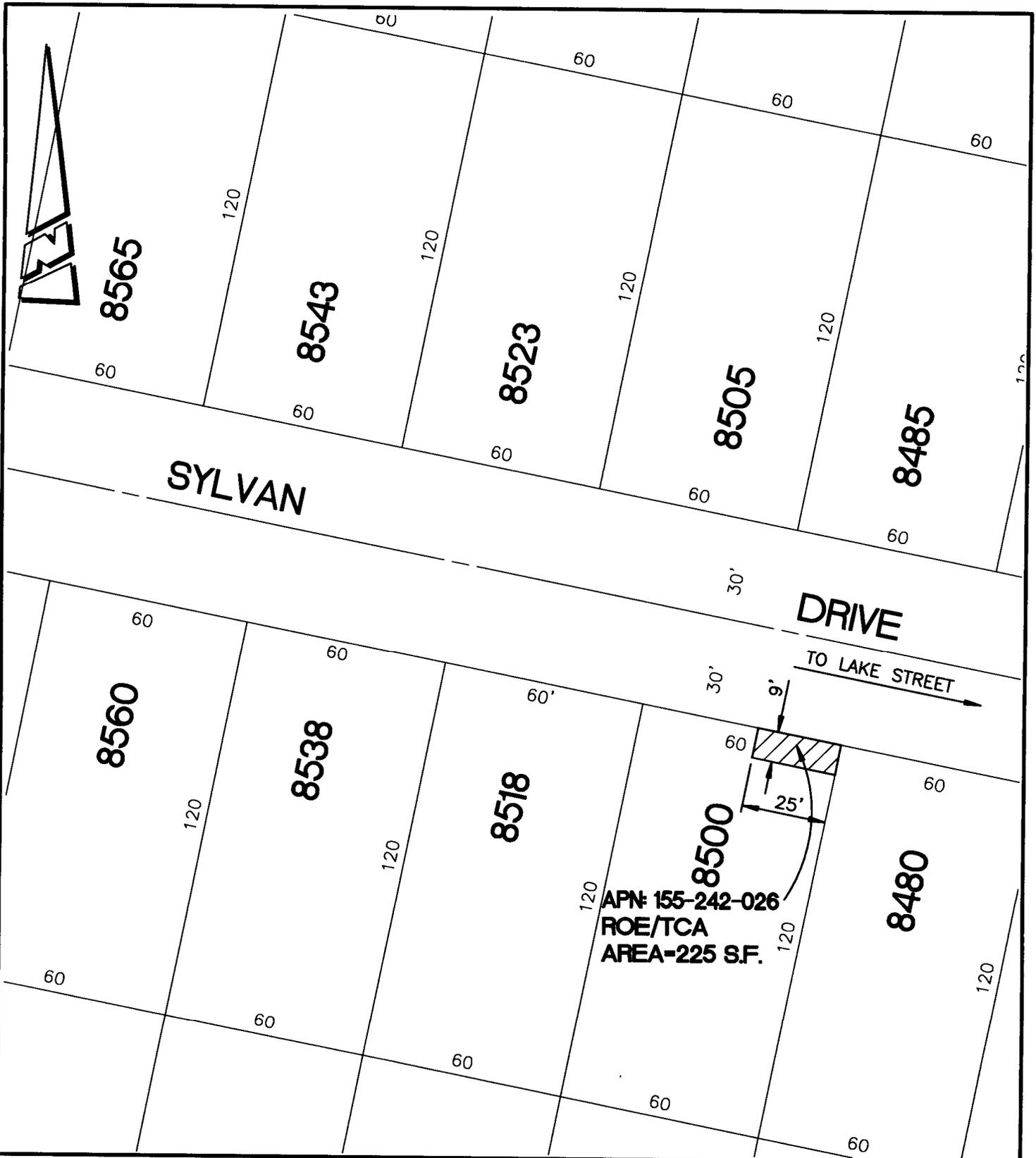
Date: 8-8-16

APPROVED AS TO FORM:

By: 
 Deputy City Attorney

ATTEST:

By: 
 City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/27/16

SUBJECT: 8500 SYLVAN DRIVE ROE/TCA - APN 155-242-026

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Mildred Ida Eischen, surviving Trustee of the Family Trust of Eugene Edward Eischen and Mildred Ida Eischen dated October 18, 1999
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-025
Address: 8518 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-025, being approximately 300 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

| <u>City</u> | <u>Grantor</u> |
|---|---|
| City of Riverside | Contact Name: <u>Mildred Eischen</u> |
| 3900 Main Street, 3 rd Floor | Mailing Address: <u>8518 Sylvan Dr.</u> |
| Riverside, California 92522 | <u>Riverside, CA 92503</u> |
| Attn: David Welch | Phone No.: <u>951-688-3416</u> |
| Real Property Services Manager | Email: _____ |
| DWelch@riversideca.gov | |
| (951) 826-5665 | |

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

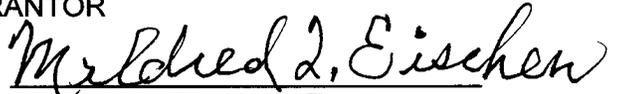
By: 
David Welch
Real Property Services Manager

Date: 8-17-16

APPROVED AS TO FORM:

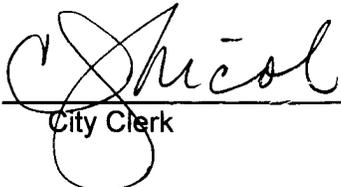
By: 
Deputy City Attorney

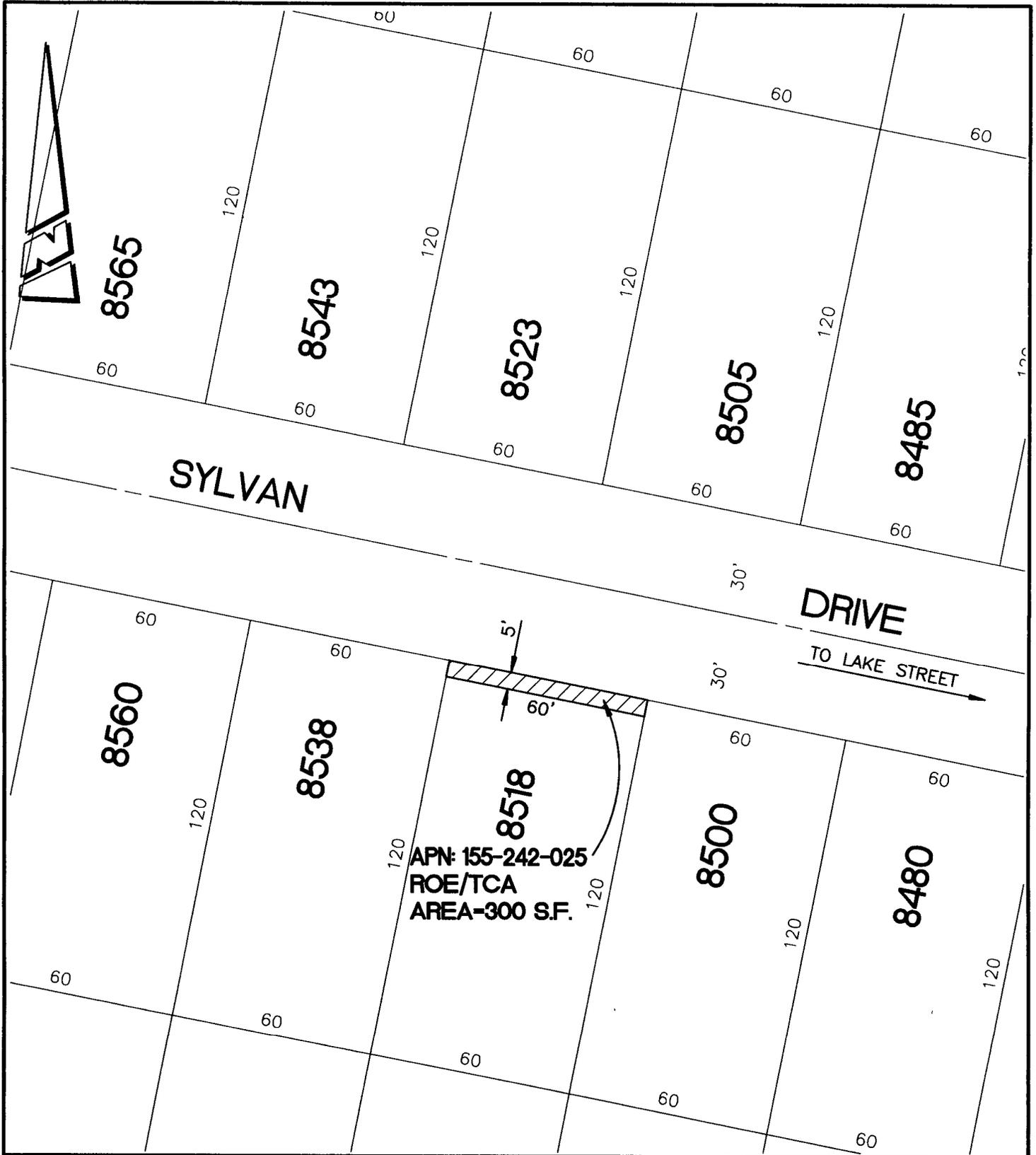
GRANTOR

By: 
Mildred Ida Eischen – Trustee

Date: 8-2-16

ATTEST:

By: 
City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/12/16

SUBJECT: 8531 SYLVAN DRIVE ROE/TCA - APN 155-242-025

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Marcos D. Ruiz
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-022
Address: 8580 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-022, being approximately 420 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

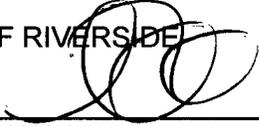
City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

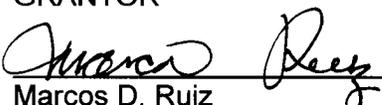
Contact Name:
Mailing Address:
Phone No.:
Email:

Marcos Ruiz
8580 Sylvan Ave.
Riverside CA 92503
(951) 353-0135
ruizbren-2005@yahoo.com

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE
By: 
David Welch
Real Property Services Manager

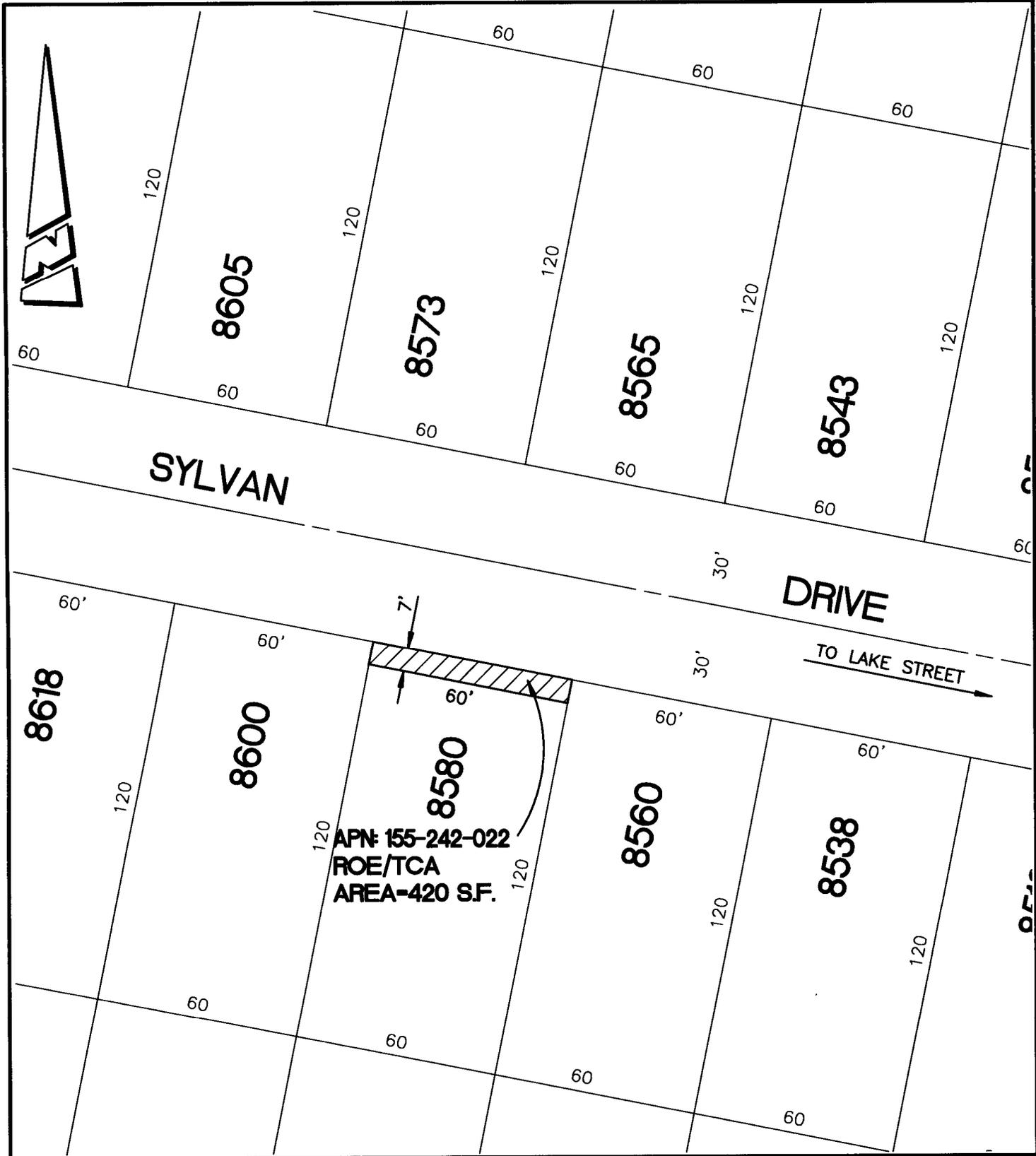
Date: 8-17-16

GRANTOR

Marcos D. Ruiz

Date: 8-2-16

APPROVED AS TO FORM:
By: 
Deputy City Attorney

ATTEST:
By: 
City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40' DRAWN BY: CURT DATE: 7/12/16 SUBJECT: 8518 SYLVAN DRIVE ROE/TCA - APN 155-242-025

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Refugio Murillo and Teresa Murillo
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-019
Address: 8638 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-019, being approximately 96 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name: Teresa Murillo
Mailing Address: 8638 Sylvan Drive
Riverside, CA 92503
Phone No.: 951-870-1721
Email: _____

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE
 By: 
 David Welch
 Real Property Services Manager

Date: 8-18-16

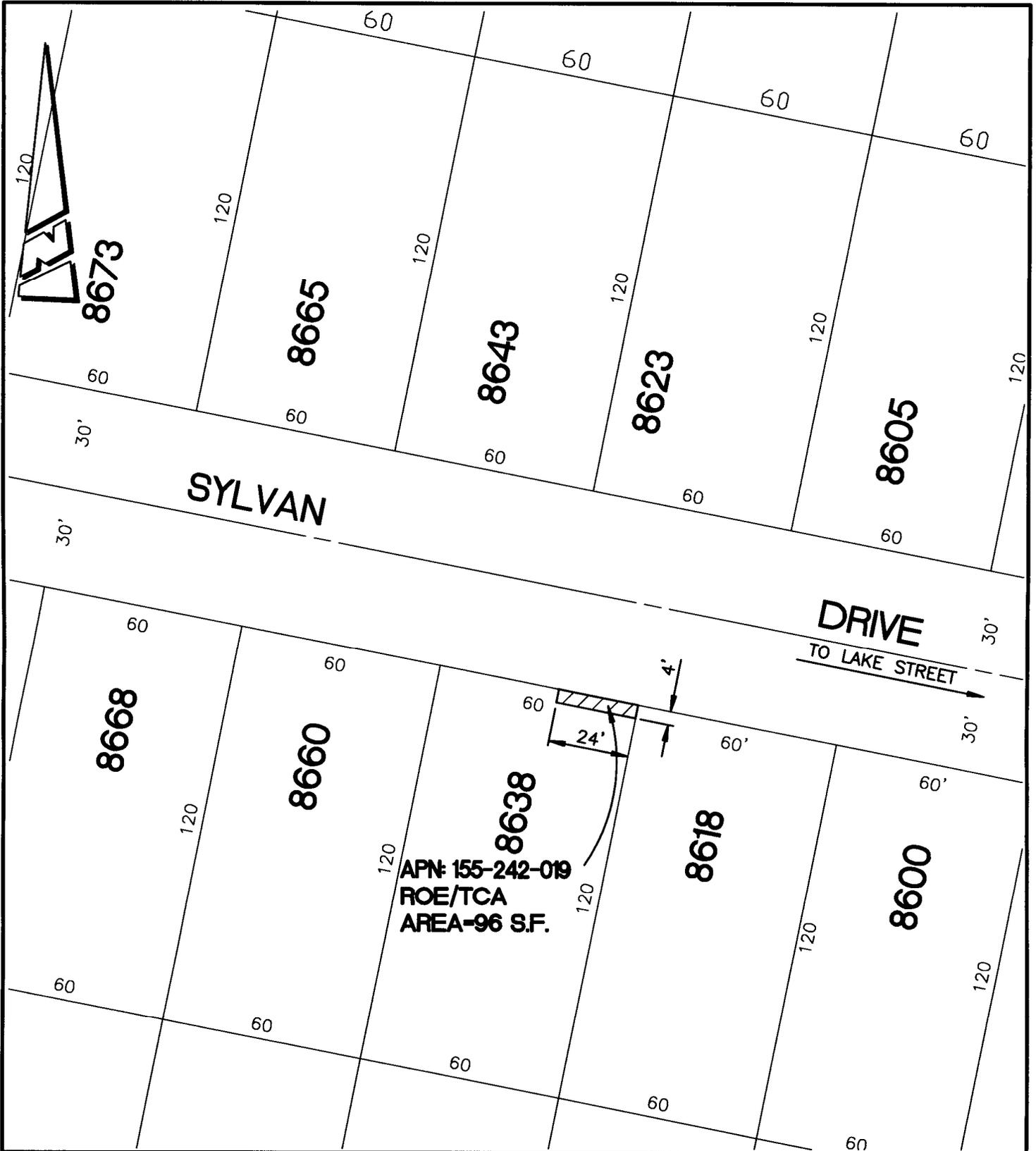
APPROVED AS TO FORM:
 By: 
 Deputy City Attorney

GRANTOR
 By: 
 Refugio Murillo

By: 
 Teresa Murillo

Date: 8/17/16

ATTEST:
 By: 
 City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/27/16

SUBJECT: 8638 SYLVAN DRIVE ROE/TCA - APN 155-242-019

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Cornelio Santamaria and Norma Franco
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-242-018
Address: 8660 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-242-018, being approximately 88 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

Cornelio Santamaria
8660 Sylvan Ave.
Riverside Ca 92503
(714) 422-6759
Cosmes73@hotmail.com

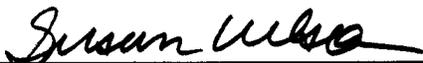
2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

By: 
David Welch
Real Property Services Manager

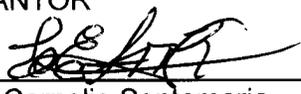
Date: 8-17-16

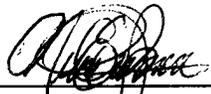
APPROVED AS TO FORM:

By: 
Deputy City Attorney

APN 155-242-018 ROE-TCA.doc

GRANTOR

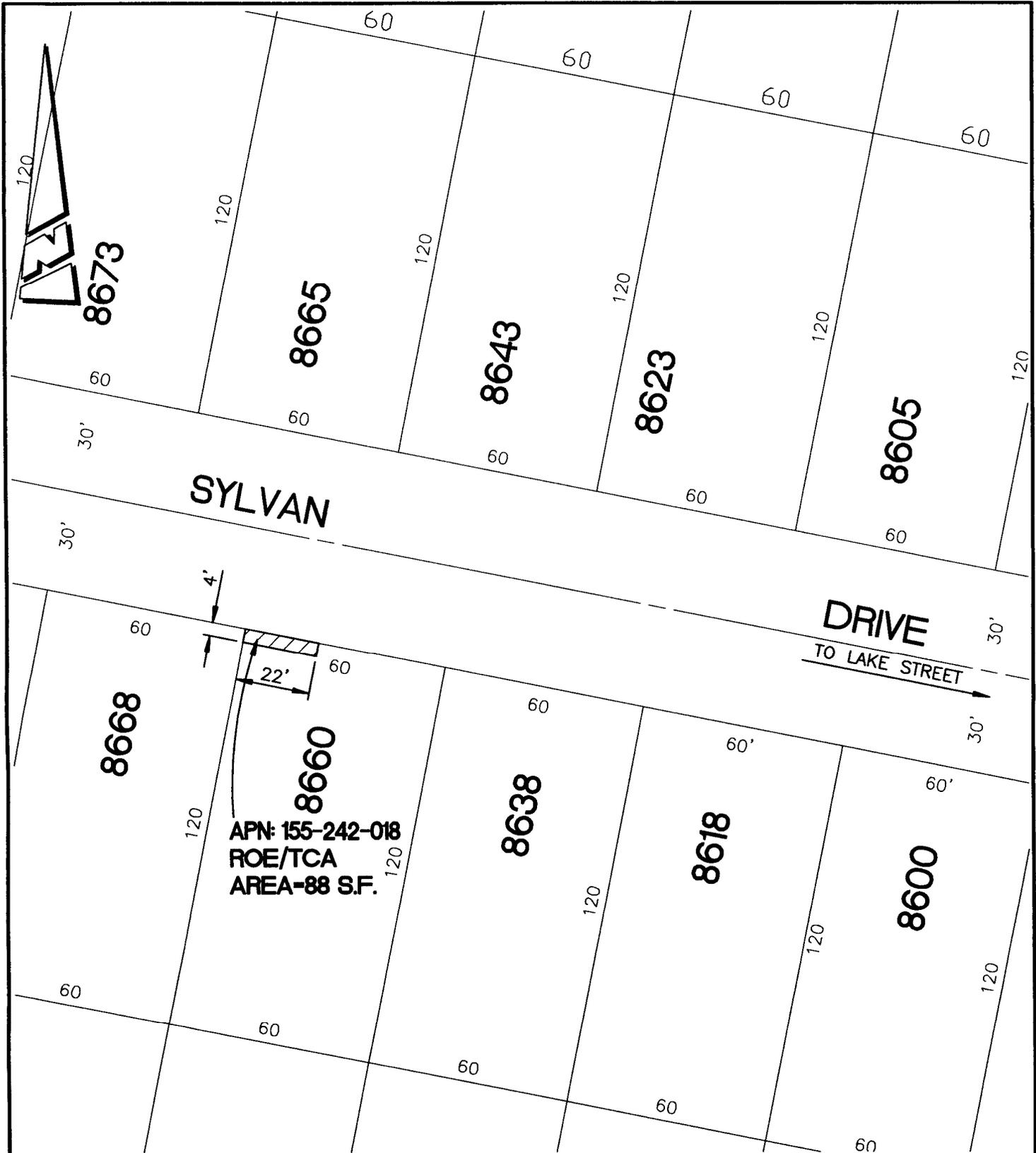
By: 
Cornelio Santamaria

By: 
Norma Franco

Date: 8/5/16

ATTEST:

By: 
City Clerk



• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/27/16

SUBJECT: 8660 SYLVAN DRIVE ROE/TCA - APN 155-242-018

CITY OF RIVERSIDE
(Herein referred to as "City"), and

Basilio Rodriguez Morones
(Herein referred to as "Grantor")

Project: 2015-2016 CDBG Project
Por. APN: 155-224-001
Address: 8780 Sylvan Drive

RIGHT OF ENTRY AND TEMPORARY CONSTRUCTION AGREEMENT

1. The right is hereby granted to City by the undersigned ("Grantor") to enter upon and use the land of Grantor in the City of Riverside, State of California, described as APN 155-224-001, being approximately 292 square feet, highlighted on the map attached hereto, (herein referred to as "Easement Area"), and made a part hereof for all purposes necessary to facilitate and accomplish the construction of public sidewalk improvements, match-up driveway paving and any additional work determined by the City Engineer to be necessary to complete the work for the Project. Prior to using the rights herein granted, City shall provide twenty-four (24) hour written notice to proceed by email or five (5) day written notice by U.S. mail to Grantor at the address provided in the Notice section below. City's construction contractor will make all reasonable efforts to post notices to all affected tenants located on the Property. The rights herein granted may be exercised for six (6) months after the City's written Notice to Proceed and will terminate upon completion of the public improvements, whichever shall be sooner.

Notices: Service of any notices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by email or United States mail, postage prepaid and addressed as follows (please provide contact information below. Note: e-mail will be the default method for notice unless no e-mail address is available):

City

City of Riverside
3900 Main Street, 3rd Floor
Riverside, California 92522
Attn: David Welch
Real Property Services Manager
DWelch@riversideca.gov
(951) 826-5665

Grantor

Contact Name:
Mailing Address:
Phone No.:
Email:

Basilio Rodriguez
8780 Sylvan Dr
Riverside CA 92503
951 824 47-79

2. It is understood that City may enter upon Grantor's property where appropriate or designated for the purpose of getting equipment to and from Easement Area. City agrees not to damage Grantor's property in the process of performing such activities.
3. The right to enter upon Grantor's land includes the right to remove and dispose of real and personal property located thereon. Grantor reserves the right to remove real and personal property on or before the City's issuance of the Notice to Proceed. If said property is not removed in its entirety at Grantor's expense, on or before said date for any reason whatsoever, the right to remove said property shall terminate and said property will become the property of City to dispose of at its discretion.
4. At the termination of the period of use of Grantor's land by City, but before its relinquishment to Grantor, debris generated by City's use will be removed and the surface will be left in a neat condition.
5. Grantor hereby warrants that they are the owner of the property described above and that they have the right to grant City permission to enter upon and use the land.
6. This agreement is the result of negotiations between the parties hereto. This agreement is intended by the parties as a final expression of their understanding with respect to the matters herein and is a complete and exclusive statement of the terms and conditions thereof.
7. This agreement shall not be changed, modified, or amended except upon the written consent of the parties hereto.
8. This agreement supersedes any and all other prior agreements or understandings, oral or written, in connection therewith.
9. Grantor, their assigns and successors in interest, shall be bound by all the terms and conditions contained in this agreement, and all the parties thereto shall be jointly and severally liable thereunder.

CITY OF RIVERSIDE

By: _____

David Welch

Real Property Services Manager

Date: _____

8-17-16

APPROVED AS TO FORM:

By: _____

Deputy City Attorney

APN 155-224-001 ROE-TCA.doc

GRANTOR

Basilio Rodriguez
Basilio Rodriguez Morones

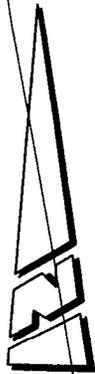
Date: _____

8-03-16

ATTEST:

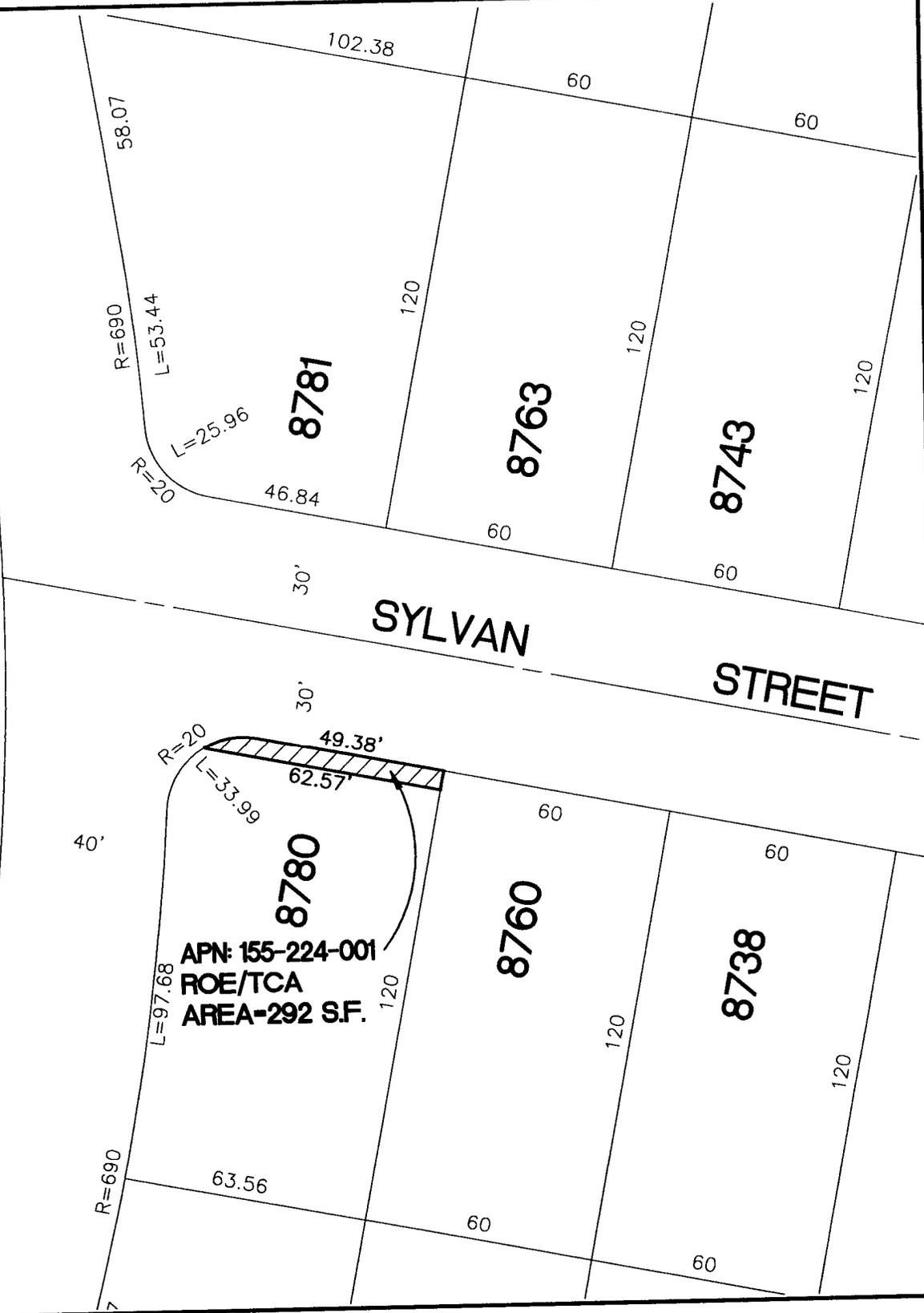
By: _____

City Clerk



AVENUE

RUTLAND



8780
 APN: 155-224-001
 ROE/TCA
 AREA-292 S.F.

• CITY OF RIVERSIDE, CALIFORNIA •

THIS PLAT IS SOLELY AN AID IN LOCATING THE PARCEL(S) DESCRIBED IN THE ATTACHED DOCUMENT. IT IS NOT A PART OF THE WRITTEN DESCRIPTION THEREIN.

SHEET 1 OF 1

SCALE: 1"=40'

DRAWN BY: CURT

DATE: 7/12/16

SUBJECT: 8780 SYLVAN DRIVE ROE/TCA - APN 155-224-001

CITY OF RIVERSIDE
 BEST MANAGEMENT PRACTICES
 FOR TYPICAL CONSTRUCTION ACTIVITIES

The discharge of any pollutants into the City storm drain system or natural drainage areas is prohibited per Section 14 of the City Municipal Code and the Riverside County Area-Wide Municipal Storm water permit issued by the State Water Resources Control Board. Drainage from construction sites and construction activities is prohibited from entering the City storm drain system and natural drainage areas. Any violations of the above provisions are subject to fines by the City and by the State Water Resources Control Board.

The following best management practices (BMPs) are to be implemented for the construction activities listed. These BMPs are considered to be a minimum of the activities necessary to protect the City storm drain system. The contractor may be required to implement further BMPs to assure no pollutant discharges enter the storm drain system. The contractor needs to work closely with the City inspector to identify any further BMPs, which may be necessary.

| CONSTRUCTION ACTIVITIES | BEST MANAGEMENT PRACTICE |
|------------------------------|---|
| Portable Toilets | <ul style="list-style-type: none"> - The toilets may not be located in the street right of way. Perimeter protection must be placed around the toilet area to contain any drainage from toilet cleaning activities. |
| Sawcutting, grinding, paving | <ul style="list-style-type: none"> - Debris from these types of activities are to be swept or vacuumed daily (at a minimum) and disposed of at a landfill. - Drainage from these activities shall be contained or the catch basins down stream of these activities will be protected with sand bags. - Drainage contained shall be vacuumed daily (at a minimum) and the remaining debris disposed of at a landfill. |
| Concrete wash outs | <ul style="list-style-type: none"> - A washout/spoil area on site must be identified that will contain the concrete washout wastewater. The debris shall be removed at the end of the day, or; - The washout must be contained and removed off site daily. |
| Trenching | <ul style="list-style-type: none"> - Perimeter protection of the trenching spoil or trench area itself must be provided to prevent any erosion from the site, and - Catch basin protection must be provided to prevent drainage from entering the storm |

| | |
|---------------------|---|
| | <p>drain system.</p> <ul style="list-style-type: none"> - Any sediment or debris shall be swept up daily at a minimum. |
| Spoil piles | <ul style="list-style-type: none"> - Spoil piles with the potential for draining off-site shall have perimeter erosion control and may need temporary cover. |
| Tracking | <ul style="list-style-type: none"> - Tracking pads are required for larger jobs as well as a continual sweeping plan. - Smaller jobs must sweep daily. |
| Vehicle maintenance | <ul style="list-style-type: none"> - Regularly scheduled vehicle maintenance activities such as oil changes and fluid refills shall be conducted off-site. - Any chemicals leaking from faulty equipment will be contained and repaired immediately. - A spill response plan must be identified that properly contains and disposes of any potential spill or leaks of hazardous materials including at a minimum oil, grease, hydraulic fluid, etc. |
| Vehicle washing | <ul style="list-style-type: none"> - Vehicle washing shall not occur on site |
| Sloped areas | <ul style="list-style-type: none"> - Sloped areas shall at a minimum be protected by perimeter erosion control. Larger slopes may also need erosion control at the top of slopes. These BMPs shall stay in place and be maintained until after the landscaping has completely been established. |



**Soil
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Environmental
Material Testing**

**9980 Indiana Avenue, Suite 14
Riverside, California 92503
Tel (951) 688-5400 Fax (951) 688-5200
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May 16, 2016

Project No. 16060-01

TO: City of Riverside Public Works Department
3900 Main Street, Fourth Floor
Riverside, California 92522

ATTENTION: Mr. Dale Chapman

SUBJECT: Limited Geotechnical Pavement Investigation Report, 30 Core Locations on Ottawa Avenue, Ardmore Street, Lincoln Avenue, and Renner Street, in the City of Riverside, California

INTRODUCTION

Per your request, we have conducted a limited subsurface pavement exploration for thirty locations throughout the City of Riverside. The provided Plate 1 depicts the location of these streets and the requested explored locations.

The main purpose of the work is to provide actual thickness of the structural pavement section at the selected locations, visually classify the subgrade soils, determine subgrade moisture content for the thirty cored locations, and eight laboratory R-value determinations. We understand that this information is necessary for the rehabilitation design and construction of the subject streets.

SCOPE OF WORK

Our scope of work consisted of the following:

1. Visit the site to observe the site condition, overhead lines, apparent utilities, and traffic pattern.
2. Collect relevant subsurface information such as depth to groundwater
3. Mark borehole locations in accordance with plans.
4. Call USA to mark utilities
5. Review sewer and storm drain plans online
6. Visit the site prior to field work to assure that no conflict with underground utilities
7. Prepare traffic control plan per the Watch Manual
8. Apply for a no-fee permit
9. Call for inspection
10. Document observations of structural section and subgrade conditions
11. Collect soil samples for classification, moisture testing, and R-value determination

FIELD WORK

Thirty locations were cored on Ottawa Avenue, Ardmore Street, Lincoln Avenue, and Renner Street, as shown on Plate 1, were marked in the field for Underground Service Alert prior to our field work. On May 12th, 2016, the marked locations were bored utilizing a CME 45 drill rig equipped with 6 inch diameter augers, to obtain access to the cross section of the existing pavement material and subgrade soils for observations, soil sampling, and pavement section measurement. The asphalt concrete pavement and base material thicknesses were measured, and soil samples were obtained from the selected locations for R-Value laboratory testing.

EXISTING PAVEMENT STRUCTURAL SECTION

Based on our exploration, the exposed structural pavement thickness is summarized in Table 1 presented in Appendix A.

R-VALUE

R-Values are based on laboratory testing of sub-grade material is summarized in Table 1 in Appendix A. Graphical representation of the R-value test results is attached in Appendix B.

MOISTURE TESTING

Laboratory moisture content testing of sub-grade material was conducted for the thirty coring locations and subgrade soil was visually classified. Refer to Table 1 in Appendix A for test results.

GROUNDWATER

Groundwater study is not within the scope of this work. Groundwater was not encountered in any of the core locations. Depth to highest historical groundwater for the core locations is presented in Table 2 in Appendix A. The selected wells in Table 2 are in our opinion reasonably close to the core locations. In areas where groundwater is shown in the table to be less than twenty-five feet below ground surface is likely to be closer to the surface in wet weather.

In areas of shallow bedrock perched water may buildup in wet season. As a result, rain water or irrigation water may mound on low hydraulic conductivity layers in the vadose zone or on bedrock which may alter saturated flow direction or reach surface. Movement of this water buildup laterally may cause seeps breakout on slopes.

Groundwater is not anticipated to impact the paving operations. Probable seasonal seep, run-off from elevated areas should not be precluded during wet season.

Please note that the potential for rain or irrigation water locally seeping through from adjacent elevated areas and showing up near grades cannot be precluded. Our experience indicates that surface or near-surface groundwater conditions can develop in areas where groundwater conditions did not exist before, especially in areas where a substantial increase in surface water infiltration results from landscape irrigation. Fluctuations in perched and static water elevations are likely to occur in the future due to variations in precipitation, temperature, consumptive uses, and other factors including urbanization and development. Mitigation for nuisance shallow seeps will be needed if encountered. These mitigations may include subdrains, horizontal drains, toe drains, french drains, heel drains or other devices.

SUBGRADE UNIFORMITY

If the street rehabilitation includes removal and replacement, the subgrade for pavement support must be firm, unyielding, and uniform with no abrupt horizontal changes in degree of support. Soft or wet spots should be excavated and recompacted with the same type of soil as found in adjacent subgrade or Class II base material. The upper 12-inches of subgrade should be moisture conditioned (dried or moistened) to near optimum moisture content and compacted to at least 95 percent (90 percent when pavement is provided with aggregate base) of the maximum dry density as determined by ASTM D 1557 prior to paving.

SITE DRAINAGE

The subgrade and surface of pavement should be provided with positive drainage. Drainage should be directed to established appropriate drainage structures. Water, either natural or by irrigation, should not be permitted to pond or saturate subgrade soils. Similarly, "bird baths" should not be allowed as they can result in early deterioration of pavement. Excessive planter and median watering should not be permitted in order to prevent water infiltration below the pavements, eroding the subgrade, and/or create subgrade pumping conditions under the wheel loading.

OBSERVATION AND TESTING

GeoMat Testing Laboratories should observe and test at the following stages:

- Observe pavement laydown and compaction and take sufficient compaction tests to verify adequacy of compaction.
- Observe plant operation and examine delivery tickets to verify that appropriate mix is being delivered to site.
- Take and record asphalt temperature during laydown
- When any unusual conditions are encountered.

LIMITATION OF INVESTIGATION

The recommendations provided in this report are based on existing conditions as exposed from limited exploration of the site. Evaluation of existing soil conditions is not within the scope of this study. This report has been prepared for the exclusive use of City of Riverside. If conditions are encountered during construction that appears to be different than anticipated, this office should be notified immediately. Design and construction revisions may be required. Our findings and recommendations were obtained in accordance with generally accepted professional principles and practices in geotechnical engineering. We make no other warranty, either expressed or implied.

If you should have any questions regarding this report, please do not hesitate to call our office. We appreciate this opportunity to be of service.

Submitted for GeoMat Testing Laboratories, Inc.


Haytham Nablisi, GE 2375
Project Engineer

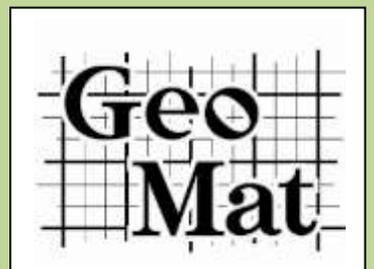


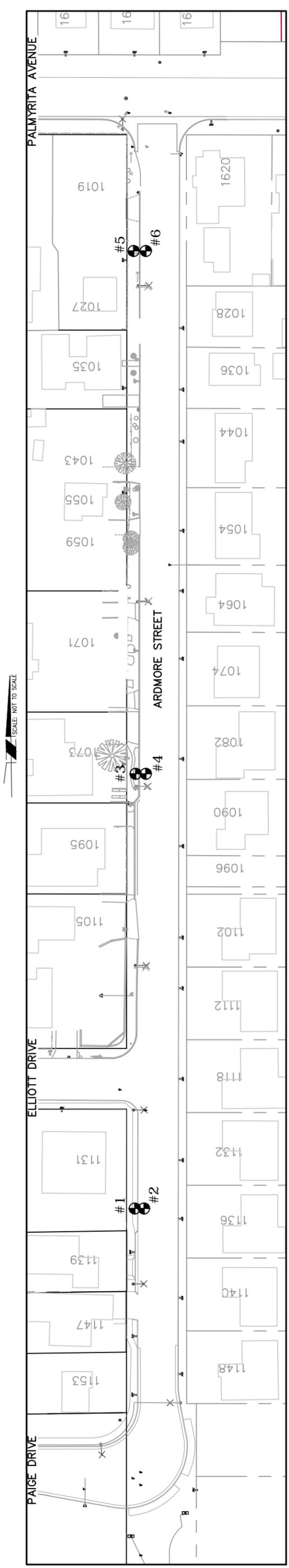

Art Martinez
Staff Engineer

Distribution [3] Addressee

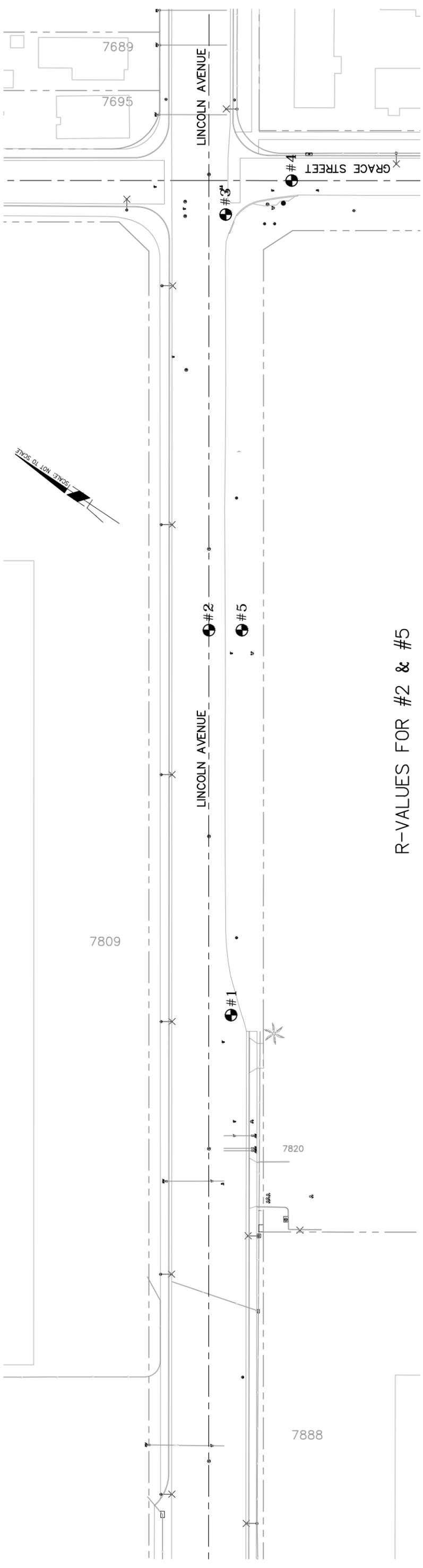
Attachments: Appendix A Core Location Maps and Tables
Appendix B Laboratory R-value Test Result

Appendix A





R-VALUES FOR #1, #3 & #5



R-VALUES FOR #2 & #5

TWELFTH STREET



#4 #5 #6

#3 #2 #1

#7 #8 #9 #10 #11

OTTAWA AVENUE

#12 #13 #14

ELEVENTH STREET

TENTH STREET

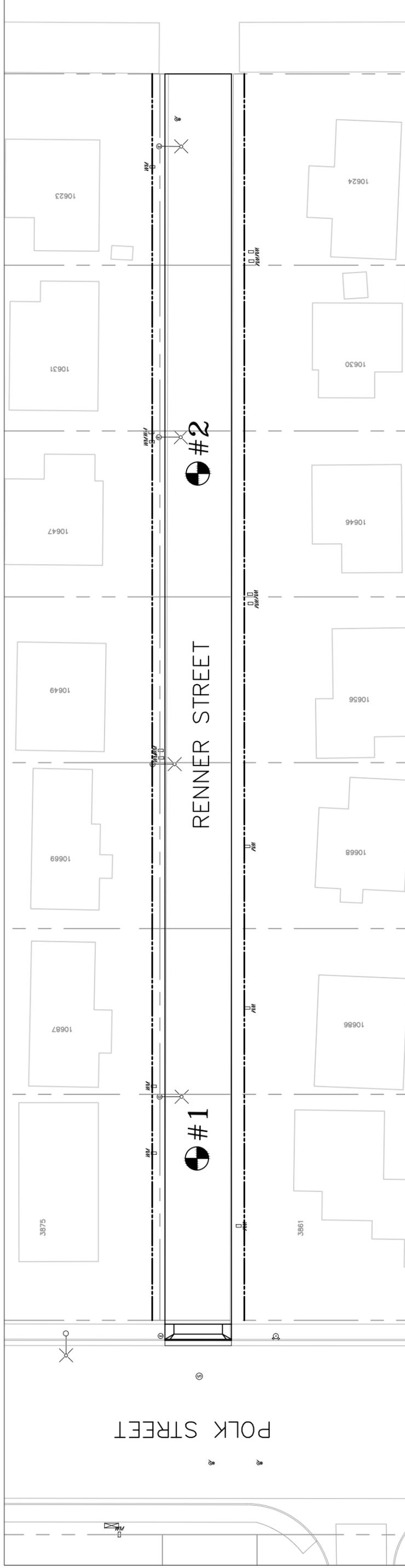
UNIVERSITY AVENUE

#15 #16 #17

OTTAWA AVENUE

NINTH STREET

SCALE NOT TO SCALE



R-VALUE FOR #2

Table 1: 30 Locations on Ardmore Street, Lincoln Avenue, Ottawa Avenue, and Renner Street

| Location | AC (in) | Base 1 (in) | Base 2 (in) | GeoGrid (Yes/No) | Moisture (%) | Rvalue | USCS Classification | Comments |
|-------------------|---------|-------------|-------------|------------------|--------------|--------|---------------------|----------|
| Ardmore Street B1 | 0 | 0 | 0 | No | 7.2 | 35 | SC | |
| Ardmore Street B2 | 3.0 | 5.0 DG | 0 | No | 14.0 | X | SC | |
| Ardmore Street B3 | 0 | 0 | 0 | No | 10.6 | 17 | SC | |
| Ardmore Street B4 | 3.0 | 4.5 DG | 0 | No | 12.9 | X | SC | |
| Ardmore Street B5 | 0 | 0 | 0 | No | 8.8 | 17 | SC | |
| Ardmore Street B6 | 2.0 | 3.0 DG | 0 | No | 13.1 | X | SC | |
| Lincoln B1 | 9.0 | 0 | 0 | No | 6.1 | X | SM | |
| Lincoln B2 | 8.5 | 0 | 0 | No | 6.5 | 47 | SM | |
| Lincoln B3 | 7.5 | 0 | 0 | No | 10.6 | X | SM | |
| Lincoln B4 | 6.0 | 0 | 0 | No | 6.1 | X | SM | |
| Lincoln B5 | 0 | 0 | 0 | No | 6.0 | 67 | SM | |
| Ottawa B1 | 3.0 | 1.0 DG | 0 | No | 11.2 | X | SM | |
| Ottawa B2 | 5.25 | 0 | 0 | No | 7.2 | X | SM | |
| Ottawa B3 | 6.0 | 0 | 0 | No | 10.1 | X | SM | |
| Ottawa B4 | 5.5 | 5.0 SG | 0 | No | 6.5 | X | SM | |
| Ottawa B5 | 6.5 | 0 | 0 | No | 6.1 | X | SM | |
| Ottawa B6 | 4.5 | 1.5 SG | 0 | No | 6.6 | X | SM | |
| Ottawa B7 | 8.5 | 0 | 0 | No | 8.2 | X | SM | |
| Ottawa B8 | 6.0 | 0 | 0 | No | 9.2 | X | SM | |
| Ottawa B9 | 6.5 | 0 | 0 | No | 7.7 | X | SM | |
| Ottawa B10 | 7.0 | 0 | 0 | No | 6.8 | X | SM | |
| Ottawa B11 | 3.0 | 2.0 DG | 0 | No | 8.1 | X | SM | |
| Ottawa B12 | 4.5 | 0 | 0 | No | 6.7 | X | SM | |
| Ottawa B13 | 6.5 | 0 | 0 | No | 6.5 | X | SM | |
| Ottawa B14 | 10.0 | 0 | 0 | No | 6.4 | 21 | SM | |
| Ottawa B15 | 4.0 | 0 | 0 | No | 7.2 | 21 | SM | |
| Ottawa B16 | 3.5 | 2.0 QG | 0 | No | 7.0 | X | SM | |
| Ottawa B17 | 2.0 | 2.0 QG | 0 | No | 7.3 | X | SM | |
| Renner B1 | 1.5 | 2.5 DG | 0 | No | 9.8 | X | CL/SC | |
| Renner B2 | 3.0 | 0 | 0 | No | 12.2 | 7 | CL/SC | |

AB: Aggregate Base

DG: Decomposed Granite

0: No Base of Any Kind

X: Not Required

CN: Cement Treated Base

MA: MacAdam

SG: Sand and Gravel

QG: Quartz Gravel

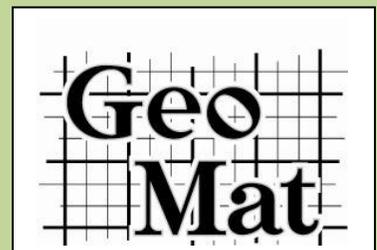
Note: QG visually described as white quartz gravel (3/8" to 3/4") covered with black film. This material was fracturing upon heating in samples tested for moisture

TABLE 2

AVAILABLE NEAR-BY GROUNDWATER DATA

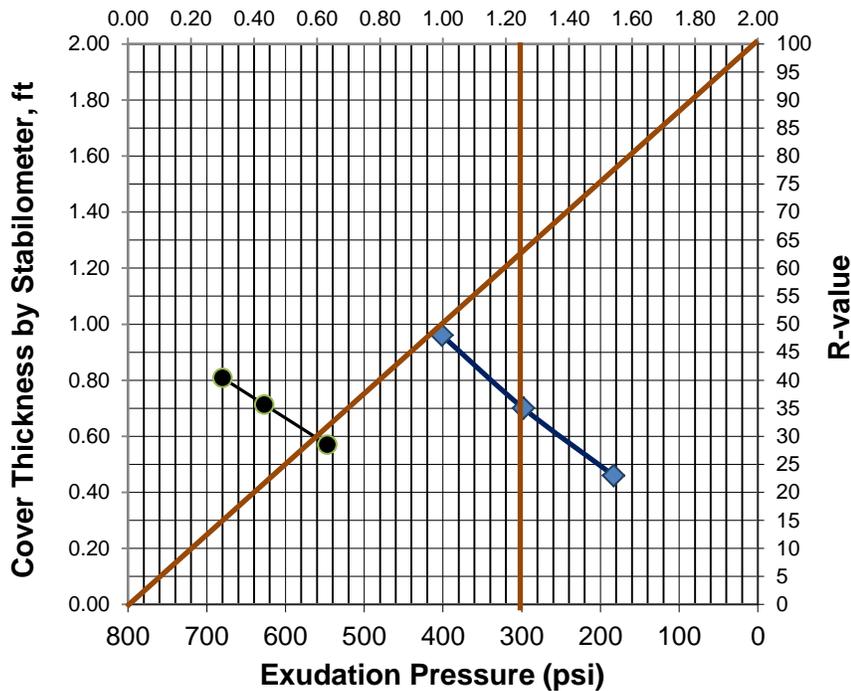
| Near-By Well No. | Surface Elevation (ft) | Depth to Water (ft) | Date of Measurement | Applicable Cores |
|-------------------------|-------------------------------|----------------------------|----------------------------|-------------------------|
| 2S5W24N | 778 | 121 | 03/31/2005 | Ottawa Avenue |
| 2S5W25F001S | 776 | 133 | 03/13/2010 | |
| 2S5W25F002S | 585 | 90 | 03/29/2005 | |
| 3S5W9E | 769 | 76 | 01/03/2001 | Lincoln Avenue |
| 3S5W9E001S | 779 | 78 | 06/17/2006 | |
| 3S5W8A | 766 | 72 | 10/31/2005 | |
| 3S6W13E | 697 | 21 | 04/24/2000 | Renner Street |
| 3S6W13F | 708 | 27 | 09/13/2000 | |
| 3S6W13M001S | 699 | 21 | 05/10/2000 | |
| 2S5W13A | 810 | 65 | 12/12/2000 | Ardmore Street |
| 2S5W13M | 788 | 42 | 12/15/2000 | |
| 2S5W13Q002S | 797 | 86 | 03/06/2003 | |

Appendix B



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 300 | 126.4 | 12.2 | 19 | 52 | 2.56 | 401 | 47 | 48 |
| 2 | 275 | 124.4 | 12.7 | 13 | 71 | 2.60 | 298 | 33 | 35 |
| 3 | 250 | 124.7 | 13.2 | 9 | 86 | 2.44 | 183 | 24 | 23 |

| | |
|--------------------|--------------------------|
| Test Method | CT 301 |
| Sample Location | 1 - Ardmore Street |
| Sample Description | Medium Brown Clayey Sand |
| Notes | |

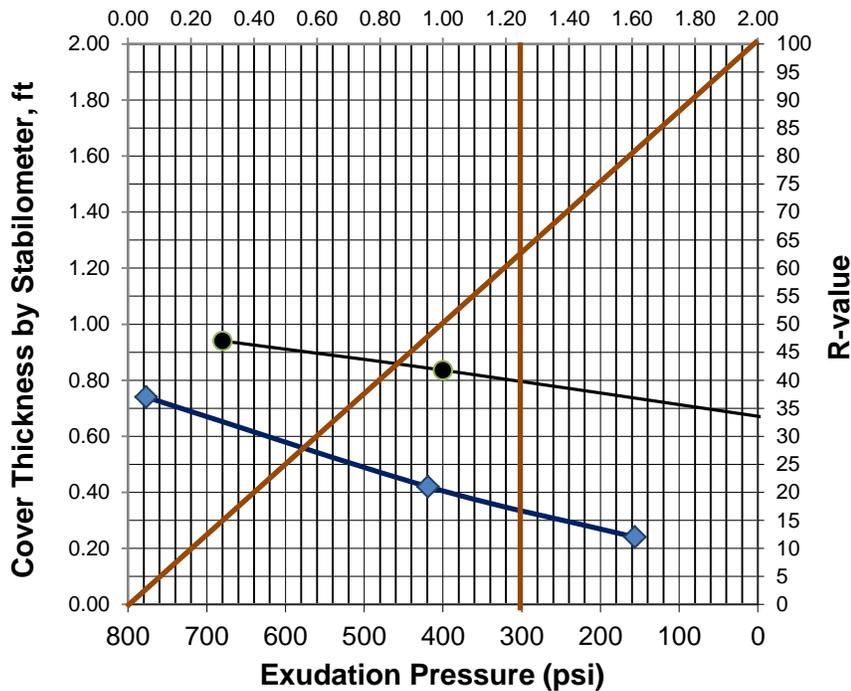
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.57 | 0.71 | 0.81 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 0.63 | 0.43 | 0.30 |
| Expansion, Stability Equilibrium | 0.6 | | | | |
| R-Value by Expansion | 44 | | | | |
| R-Value by Exudation | 35 | | | | |
| R-Value at Equilibrium (Result) | 35 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 350 | 126.6 | 13.6 | 62 | 77 | 2.45 | 777 | 38 | 37 |
| 2 | 200 | 124.1 | 14.6 | 30 | 101 | 2.45 | 419 | 22 | 21 |
| 3 | 100 | 120.6 | 15.6 | 9 | 119 | 2.53 | 156 | 12 | 12 |

| | |
|--------------------|--------------------------|
| Test Method | CT 301 |
| Sample Location | 3 - Ardmore Street |
| Sample Description | Medium Brown Clayey Sand |
| Notes | |

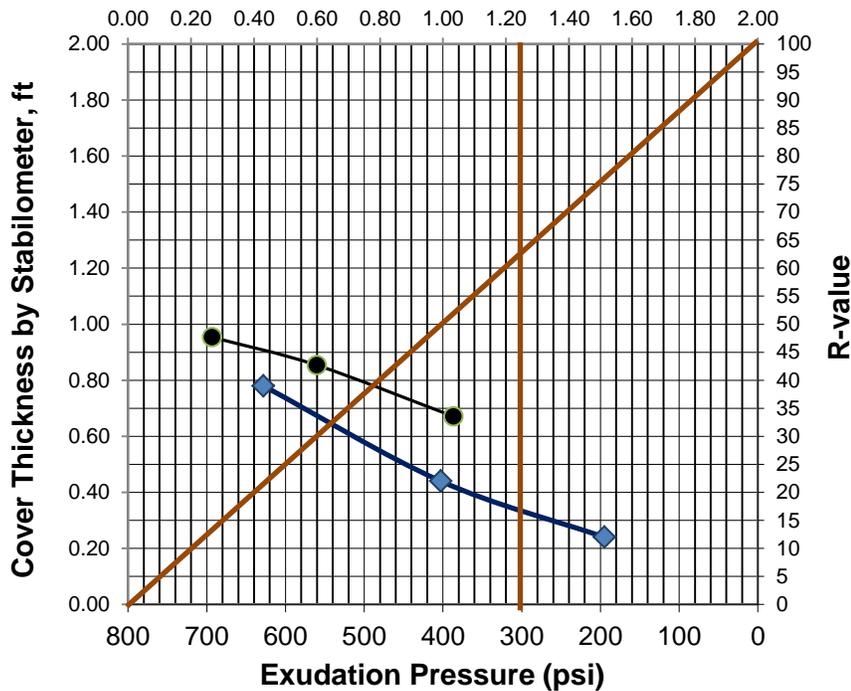
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.66 | 0.84 | 0.94 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 2.07 | 1.00 | 0.30 |
| Expansion, Stability Equilibrium | 0.86 | | | | |
| R-Value by Expansion | 19 | | | | |
| R-Value by Exudation | 17 | | | | |
| R-Value at Equilibrium (Result) | 17 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 350 | 124.3 | 13.8 | 31 | 67 | 2.59 | 628 | 37 | 39 |
| 2 | 250 | 117.6 | 14.8 | 18 | 96 | 2.67 | 403 | 20 | 22 |
| 3 | 150 | 114.0 | 15.8 | 8 | 119 | 2.73 | 195 | 11 | 12 |

| | |
|--------------------|--------------------------|
| Test Method | CT 301 |
| Sample Location | 5 - Ardmore Street |
| Sample Description | Medium Brown Clayey Sand |
| Notes | |

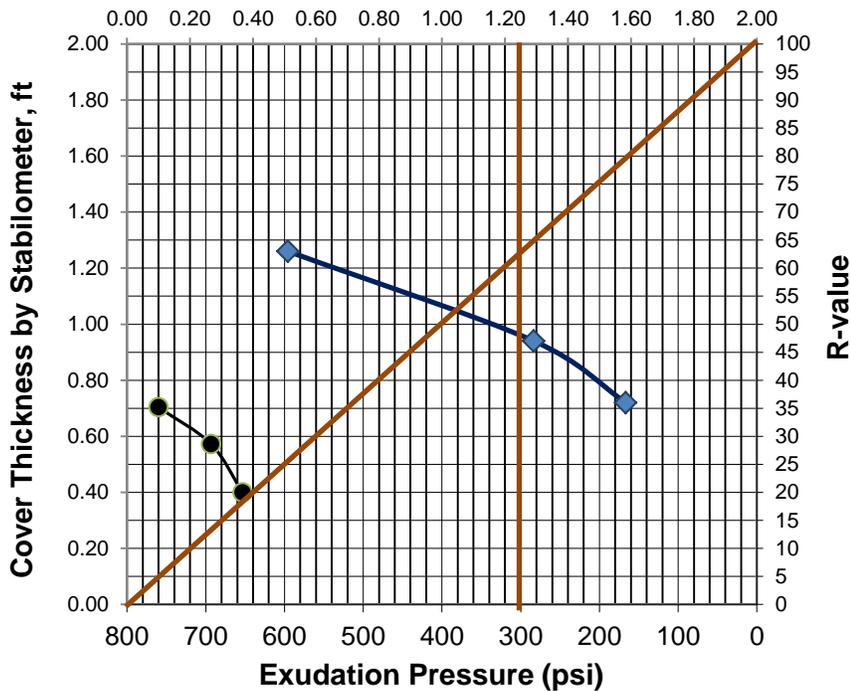
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.67 | 0.85 | 0.95 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 1.03 | 0.60 | 0.27 |
| Expansion, Stability Equilibrium | 0.78 | | | | |
| R-Value by Expansion | 27 | | | | |
| R-Value by Exudation | 17 | | | | |
| R-Value at Equilibrium (Result) | 17 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 350 | 134.4 | 9.8 | 11 | 34 | 2.50 | 596 | 63 | 63 |
| 2 | 350 | 131.4 | 10.5 | 8 | 52 | 2.54 | 283 | 46 | 47 |
| 3 | 350 | 131.0 | 11.2 | 3 | 65 | 2.56 | 166 | 34 | 36 |

| | |
|--------------------|-------------------------|
| Test Method | CT 301 |
| Sample Location | 2 - Lincoln Street |
| Sample Description | Medium Brown Silty Sand |
| Notes | |

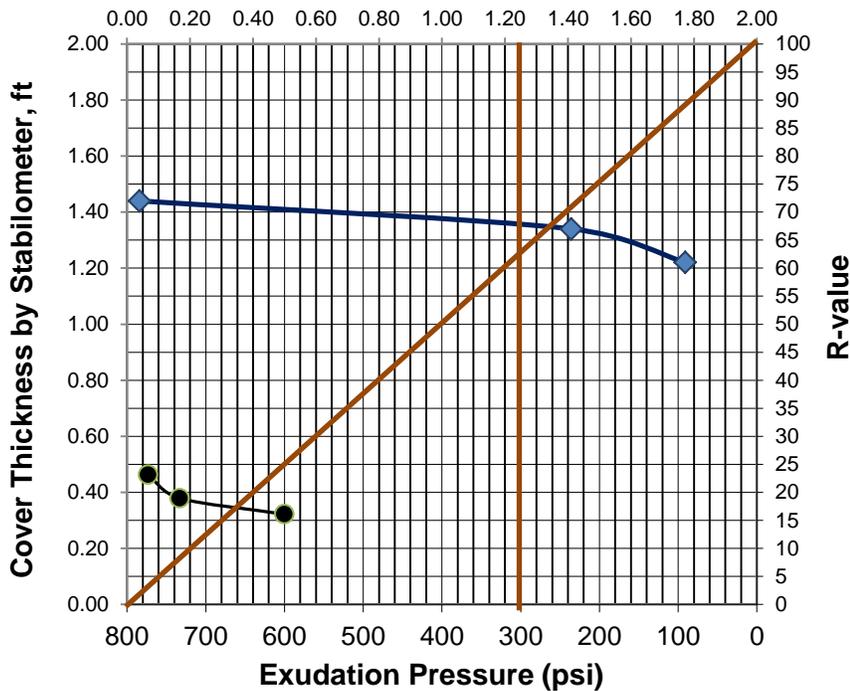
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.40 | 0.57 | 0.70 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 0.37 | 0.27 | 0.10 |
| Expansion, Stability Equilibrium | 0 | | | | |
| R-Value by Expansion | N/A | | | | |
| R-Value by Exudation | 47 | | | | |
| R-Value at Equilibrium (Result) | 47 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 350 | 130.8 | 9.5 | 15 | 27 | 2.61 | 784 | 70 | 72 |
| 2 | 350 | 130.5 | 10.0 | 5 | 31 | 2.61 | 236 | 64 | 67 |
| 3 | 350 | 128.2 | 10.5 | 2 | 37 | 2.65 | 91 | 57 | 61 |

| | |
|--------------------|---------------------------|
| Test Method | CT 301 |
| Sample Location | 5 - Lincoln Street |
| Sample Description | Orangish Brown Silty Sand |
| Notes | |

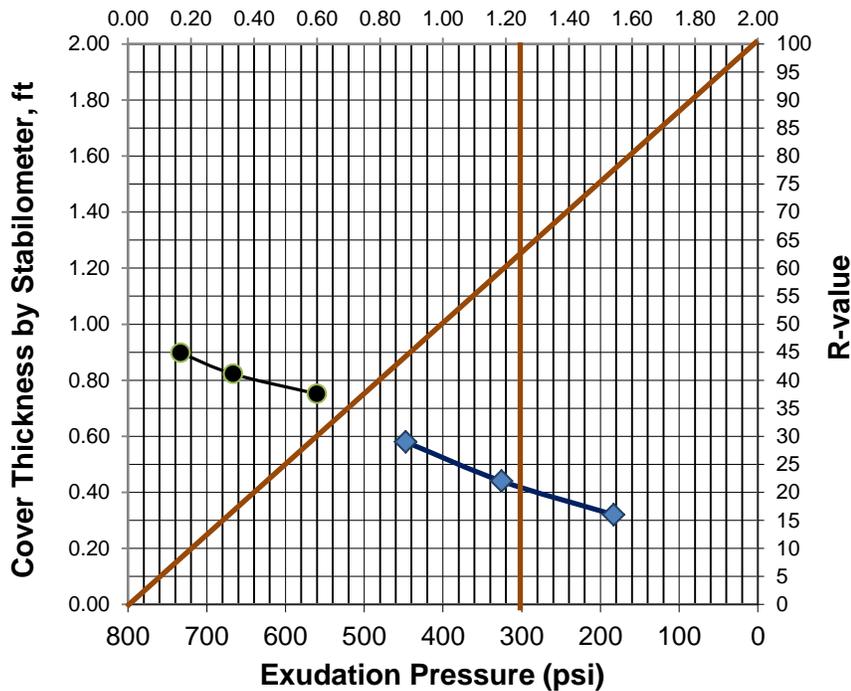
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.32 | 0.38 | 0.46 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 0.50 | 0.17 | 0.07 |
| Expansion, Stability Equilibrium | 0.34 | | | | |
| R-Value by Expansion | 68 | | | | |
| R-Value by Exudation | 67 | | | | |
| R-Value at Equilibrium (Result) | 67 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 300 | 134.0 | 9.9 | 18 | 85 | 2.45 | 447 | 30 | 29 |
| 2 | 250 | 134.1 | 10.4 | 10 | 96 | 2.40 | 326 | 23 | 22 |
| 3 | 150 | 131.3 | 10.9 | 5 | 108 | 2.48 | 183 | 16 | 16 |

| | |
|--------------------|-------------------------|
| Test Method | CT 301 |
| Sample Location | 14 - Ottawa Avenue |
| Sample Description | Medium Brown Silty Sand |
| Notes | |

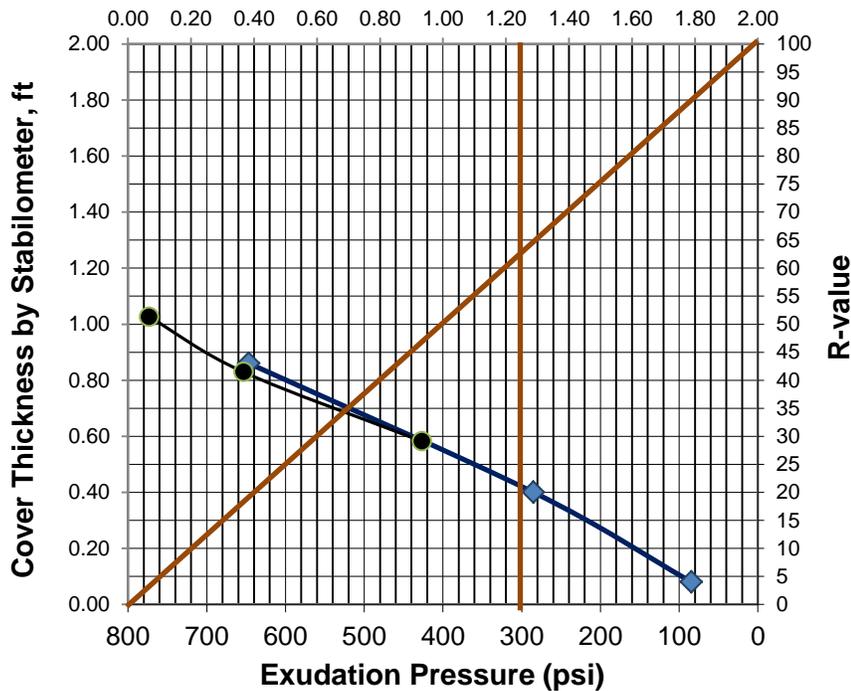
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.75 | 0.82 | 0.90 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 0.60 | 0.33 | 0.17 |
| Expansion, Stability Equilibrium | 0 | | | | |
| R-Value by Expansion | N/A | | | | |
| R-Value by Exudation | 21 | | | | |
| R-Value at Equilibrium (Result) | 21 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 350 | 138.2 | 8.2 | 28 | 60 | 2.40 | 646 | 45 | 43 |
| 2 | 250 | 135.8 | 9.2 | 11 | 99 | 2.35 | 285 | 22 | 20 |
| 3 | 100 | 132.9 | 10.2 | 2 | 144 | 2.45 | 84 | 4 | 4 |

| | |
|--------------------|---------------------------|
| Test Method | CT 301 |
| Sample Location | 15 - Ottawa Avenue |
| Sample Description | Orangish Brown Silty Sand |
| Notes | |

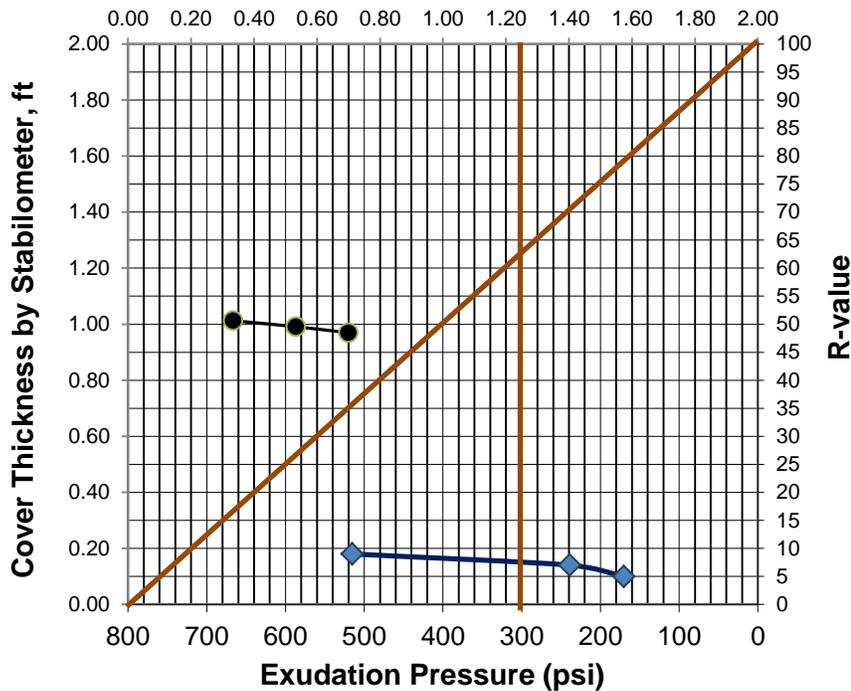
| | | 1 | 2 | 3 | |
|----------------------------------|-----------|-------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.58 | 0.83 | 1.03 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thickness | 0.93 | 0.37 | 0.07 |
| Expansion, Stability Equilibrium | 0.69 | | | | |
| R-Value by Expansion | 35 | | | | |
| R-Value by Exudation | 21 | | | | |
| R-Value at Equilibrium (Result) | 21 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



| No. | Compact Pressure (psi) | Dry Density (pcf) | Moisture (%) | Expansion Pressure (psi) | Horizontal Pressure-psi at 160 psi | Sample Height (in) | Exudation Pressure (psi) | R-Value | Corrected R-Value |
|-----|------------------------|-------------------|--------------|--------------------------|------------------------------------|--------------------|--------------------------|---------|-------------------|
| 1 | 150 | 121.9 | 14.2 | 21 | 129 | 2.45 | 515 | 9 | 9 |
| 2 | 100 | 118.8 | 15.2 | 16 | 132 | 2.48 | 239 | 7 | 7 |
| 3 | 75 | 118.0 | 15.7 | 10 | 139 | 2.53 | 170 | 5 | 5 |

| | |
|--------------------|--------------------------------------|
| Test Method | CT 301 |
| Sample Location | 2 - Renner Street |
| Sample Description | Reddish Brown Sandy Clay/Clayey Sand |
| Notes | |

| | | 1 | 2 | 3 | |
|----------------------------------|----------|------------------------|------|------|------|
| Assumed Traffic Index | 5 | Stability Thickness | 0.97 | 0.99 | 1.01 |
| Gravel Equivalent Factor | 1.5 | Exp. Pressure Thicknes | 0.70 | 0.53 | 0.33 |
| Expansion, Stability Equilibrium | 0 | | | | |
| R-Value by Expansion | N/A | | | | |
| R-Value by Exudation | 7 | | | | |
| R-Value at Equilibrium (Result) | 7 | | | | |

| | |
|------------------|--|
| Project Name | RPW - Coring Various Streets |
| Project Location | Various Streets, Riverside, California |
| Client Name | Riverside Public Works |
| Project No. | 16060-01 |



Contractor Name/Logo

NOTICE OF CONSTRUCTION

Project Name – Bid Number

Contractor Name has been contracted by the City of Riverside Public Works Department to construct the **Project Name and Bid Number**.

List type of work - example below;

The project consists of removal and replacement of damaged curb, gutter, sidewalk, driveway approaches, cross gutters, ADA non-compliant wheelchair ramps and construction of new wheelchair ramps where needed, in addition, work will include the rehabilitation of the asphalt pavement including striping, markings and signing in your area.

List locations and dates example below;

Insert Location/s
Insert Working Dates

Temporary No Parking signs will be posted at least 48 Hours in advance of the actual work on your street. Dates and times that parking is restricted will also be posted. Access for emergency vehicles, pedestrians and traffic will be maintained at all times. Also, trash pick-up service will not be impacted. We ask that you refrain from running excess water in the gutters during construction as it may delay the work.

Please keep children and pets away from construction zones. Please note that asphalt paving products contain oil and are very hot and sticky to the touch when applied. Once asphalt is placed it needs ample time to cool down.

Should you have any questions, please call our **Contractor Name** at **XXX XXX-XXXX** or if your concern is of an emergency nature please call **Contact Name** at **XXX XXX-XXXX** 24 hours. Thank you in advance for your cooperation during construction. We look forward to completion of a successful project.



City of Riverside

NOPC # _____

| | |
|--------------------------|------------|
| FOR CITY USE ONLY | |
| Received by _____ | Date _____ |

NOTICE OF POTENTIAL CLAIM

| | | |
|----|---------------------|------|
| TO | CONTRACT BID NUMBER | DATE |
|----|---------------------|------|

This is a Notice of Potential Claim for additional compensation pursuant to Section 3-7 of the Special Provisions.

The particular circumstances of this potential claim are described in detail as follows:

The reasons for which I believe additional compensation and/or time may be due are:

The nature of the costs involved and the amount of the potential claim are described as follows:
(If accurate cost figures are not available, provide an estimate, or describe the types of expenses involved.)

The undersigned originator (Contractor or Subcontractor as appropriate) certifies that the above statements are made in full cognizance of the California False Claims Act, Government Code sections 12650-12655. The undersigned further understands and agrees that this potential claim to be further considered unless resolved, must be restated as a claim in response to the City's proposed final estimate in accordance with Section 9-4 of the Standard Specifications.

SUBCONTRACTOR or CONTRACTOR
(Circle One)

(Authorized Representative)

For subcontractor notice of potential claim

This notice of potential claim is acknowledged and forwarded by

PRIME CONTRACTOR

(Authorized Representative)

EXHIBIT "F"

FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT (FFATA)

The Federal Funding Accountability and Transparency Act (FFATA or "Transparency Act") was signed on September 26, 2006. The FFATA legislation requires information on federal awards (federal financial assistance and expenditures) be made available to the public via a single, searchable website, which is www.USASpending.gov.

The FFATA Subaward Reporting System (FSRS) is the reporting tool Federal prime awardees (i.e. prime contractors and prime grants recipients) use to capture and report subaward and executive compensation data regarding their first-tier subawards to meet the FFATA reporting requirements. Prime contract awardees will report against sub-contracts awarded and prime grant awardees will report against sub-grants awarded. The sub-award information entered in FSRS will then be displayed on www.USASpending.gov associated with the prime award furthering Federal spending transparency.

The Transparency Act requires information disclosure concerning entities receiving Federal financial assistance through Federal awards such as Federal contracts, sub-contracts, grants, and sub-grants.

Specifically, the Transparency Act's section 2(b)(1) requires the City to provide the following information about each sub-award(s) greater than \$25,000:

- Name of the entity receiving the award;
- Amount of the award;
- NAICS code for contracts / CFDA program number for grants;
- Information on the award including purpose of the funding action;
- Location of the entity receiving the award and primary location of performance under the award;
- Unique identifier (DUNS #) of the entity receiving the award and the parent entity of the recipient;
- Names and total compensation of the five most highly compensated officers of the entity;

OR, the requirement will also apply if an entity, in the preceding fiscal year, received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986.

THE TRANSPARENCY ACT REQUIRES THAT ANY FEDERAL AWARD OR SUB-AWARD RECIPIENT, FOR AN AMOUNT GREATER THAN \$25,000, IS REQUIRED TO PROVIDE THE INFORMATION SET FORTH IN THE (ABOVE) BULLET LIST. ACCORDINGLY, PLEASE COMPLETE THE FOLLOWING:

I, _____ (print name), hereby agree that:

I read and understand the information provided above.

I acknowledge and agree that:
(Please check one of the following)

_____ (agency name) does not meet the above threshold requiring names and total compensation of the five most highly compensated officers of the entity if the entity.

_____ (agency name) does meet the above threshold* requiring names and total compensation of the five most highly compensated officers of the entity if the entity.

*If agency meets the above threshold, the agency MUST complete the section below identifying the names and total compensation of the five most highly compensated officers of the entity, signed and dated by the one of the following: President; Executive Director; CEO; Board Chairperson; Finance Director; CFO; or Treasurer.

| | Names of Executive | Total Compensation |
|----|---------------------------|---------------------------|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

Signature of President/Executive Director/Board Chair

Date

Printed Name of President/Executive Director/Board Chair

EXHIBIT C

CDBG ATTACHMENTS

- **C-1: SPECIAL EQUAL OPPORTUNITY PROVISIONS**
- **C-2: FEDERAL LABOR STANDARDS PROVISIONS**
- **C-3: SPECIAL CONDITIONS PERTAINING TO HAZARDS SAFETY STANDARDS AND ACCIDENT PREVENTION**
- **C-4: SAMPLE - SITE SIGN FOR HUD CDBG FUNDED PROJECTS**
- **C-5: PROJECT AREA TRAINEES, EMPLOYEES AND BUSINESSES**
- **C-6: NOTICE TO ALL EMPLOYEES REGARDING WAGE RATES (NOTICES IN SPANISH AND ENGLISH)**
- **C-7: DOL PAYROLL AND CERTIFICATION – FORM WH-347 (1 page, front and back; or 2 pages, one sided)**
- **C-8: FEDERAL (DAVIS BACON) WAGE DECISION**

SPECIAL EQUAL OPPORTUNITY PROVISIONS

A. Activities and Contracts Not Subject to Executive Order 11246, as Amended

(Applicable to Federally assisted construction contracts and related subcontracts of \$10,000 and under)

During the performance of this contract, the Contractor agrees as follows:

1. The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor shall take affirmative action to ensure that applicants for employment are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
2. The Contractor shall post in conspicuous places, available to employees and applicants for Employment, notices to be provided by Contracting Officer setting forth the provisions of this nondiscrimination clause. The Contractor shall state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. Contractors shall incorporate foregoing requirements in all subcontracts.

B. Executive Order 11246 (contracts/subcontracts above \$10,000)

1. Section 202 Equal Opportunity Clause

During the performance of this contract, the Contractor agrees as follows:

- a. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment, or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous place, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- b. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration without regard to race, color, religion, sex, or national origin.
- c. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding a notice to be provided to the Contract Compliance Officer advising the said labor union or workers' representatives of the Contractor's commitment under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- e. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the Department and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and others.
- f. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- g. The Contractor will include the provisions of the sentence immediately preceding paragraph (1) and the provision of paragraphs (1) through (7) in every subcontract or purchase order unless excepted by rules, regulations, or orders of the Secretary of labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the Department may direct as a means of enforcing such provisions, including sanctions for noncompliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Department, the Contractor may request the United States to enter into such litigation to protect the interest of the United States.

2. Notice or Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246). (Applicable to contracts, subcontracts exceeding \$10,000)

- a. The Offertory's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- b. The goals and timetable for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation (See Vol. 45, No. 194, Federal Register, pages 65976-65991, 10/3/80)

Goals for female participation (6.9%, See Vol. 45, No. 251, Federal Register, pages 85750-85751, 12/3/80)

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or Federally assisted) performed in the covered area. If the Contractor performs construction work in a geographic area located outside of the covered area, it shall apply the goals established for such geographic area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its Federally involved and non-Federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.d (a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- c. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- d. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed, giving the State, County, and City, if any).

3. Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)

a. As used in these specifications:

- (1) "Covered area" means the geographical area described in the solicitation from which this contract resulted;

"Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;

- (2) "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

- (3) "Minority" includes:

(4)

- (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
- (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or Origin, regardless of race);
- (iii) Asian and Pacific Islander (all persons having origins in Any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

- (iv) American Indian or Alaskan native (all persons having Origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identifications).
 - b. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
4. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations of all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades, which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees, The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
 5. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing contracts in geographical areas where they do not have a Federal or Federally assisted construction contract shall apply the minority and female goals established for the geographic area where the contract is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
 6. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

7. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
8. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee program relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meeting, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to school with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
 - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignment and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and supplier, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
9. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation shall not be a defense for the Contractor's noncompliance.

10. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
11. The Contractor shall not use the goals and timetables or affirmative actions standards to discriminate against any person because of race, color, religion, sex, or national origin.
12. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
13. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
14. The Contractor, in fulfilling its obligations under these specifications, shall implement Specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
15. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee, the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number where assigned, social security number, race, sex, status (e.g. mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and location at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
16. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g. those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

C. Certification of Non-segregated Facilities (Over \$10,000)

By the submission of this bid, the bidder, Offertory, applicant or subcontractor certifies that he/she does not maintain or provide for his/her establishments, and that he/she does not permit employees to perform their services at any location, under his/her control, where segregated facilities are maintained. He/she certifies further that he/she will not maintain or provide for employees any segregated facilities at any of his/her establishments, and he/she will not permit employees to perform their services at any location under his/her control where segregated facilities are maintained. The bidder, Offertory, applicant or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause of this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, transportation and housing facilities provided for employees which are segregated on the basis of race, color, religion, or are in fact segregated on the basis of race, color, religion, or otherwise (parking lots, drinking fountains, recreation or entertainment areas). He/she further agrees that (except where he/she has obtained identical certifications from proposed subcontractors for specific time periods) he/she will obtain identical certification from proposed subcontractors prior to the award of subcontract exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause; that he/she will retain such certifications in his/her files; and that he/she will forward the following notice to such proposed subcontractors (except where proposed subcontractors have submitted identical certifications for specific time periods).

D. Civil Rights Act of 1974

Under Title VI of the Civil Rights Act of 1974, no person shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

E. Section 109 of the Housing and Community Development Act of 1974

No person in the United States shall on the grounds of race, color, national origin, or sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title.

F. "Section 3" Compliance in the Provision of Training, Employment and Business Opportunities

1. The work to be performed under this contract is on a project assisted under the State CDBG program which provides Federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u. Section 3 requires that to the greatest extent feasible opportunities for training and employment be given lower income residents of the project area and contracts for work in connection with the project be awarded to business concerns which are located in, or owned in substantial part by persons residing in the area of the project.

2. The parties to this contract will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 CFR 134, and all applicable rules and orders of the Department issued there under prior to the execution of this contract. The parties to this contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.
3. The contractor will send to each labor organization or representative or workers with which he has a collective bargaining agreement or other contract or understanding, if any, a notice advising said labor organization or workers' representative of his commitments under this Section 3 clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.
4. The contractor will include this Section 3 clause in every subcontract for work in connection with the project and will, at the direction of the applicant for or recipient of Federal financial assistance, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 CFR part 135. The contractor will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 CFR Part 135 and will not let any subcontract unless the subcontractor has first provided it with a preliminary statement of ability to comply with the requirements of these regulations.
5. Compliance with the provisions of Section 3, the regulations set forth in 24 CFR Part 135, and all applicable rules and orders of the Department issued hereunder prior to the execution of the contract, shall be a condition of the Federal financial assistance provided to the project, binding upon the applicant or recipient for such assistance, its successors and assigns. Failure to fulfill these requirements shall subject the applicant or recipient, its contractors or subcontractors, its successors and assigns to those sanctions specified by the grant or loan agreement or contract through which federal assistance is provided, and to such sanctions as are specified by 24 CFR part 135.

G. Age Discrimination Act of 1975

No person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits or, or be subjected to discrimination under, any program or activity receiving Federal financial assistance.

H. Section 504 Handicapped (if \$2,500 or over) Affirmative Action for Handicapped Workers

1. The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals

Without discrimination based upon their physical or mental handicap in all employment practices such as the following: layoff or termination, rates of pay or other forms of, compensation and selection for training, including apprenticeship.

2. The contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of labor issued pursuant to the Act.
3. In the event of the contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with the rules, regulations, and relevant orders of the Secretary of labor issued pursuant to the Act.
4. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, provided by or through the contracting officer. Such notices shall state the contractor's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment, and the rights of applicants and employees.
5. The contractor will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the contractor is bound by the terms of Section 503 of the Rehabilitation Act of 1973, and is committed to take affirmative action to employ and advance in employment physically and mentally handicapped individuals.
6. The contractor will include the provisions of this clause in every subcontract or purchase order of \$2,500 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to Section 503 of the Act, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

MS/0108r/c
Rev. 11/1/05

Federal Labor Standards Provisions

U.S. Department of Housing and Urban Development Office of Labor Relations

Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

A. 1. (i) **Minimum Wages.** All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

(ii) (a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)

(c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

(d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part

of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

2. **Withholding.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract in the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work, all or part of the wages required by the contract, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.

3. (i) **Payrolls and basic records.** Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been

communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

(ii) (a) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/eas/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to HUD or its designee. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)

(b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b).

(d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees.

(i) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who

is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by

the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) **Equal employment opportunity.** The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. **Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract

6. **Subcontracts.** The contractor or subcontractor will insert in any subcontracts the clauses contained in subparagraphs 1 through 11 in this paragraph A and such other clauses as HUD or its designee may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this paragraph.

7. **Contract termination; debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. **Compliance with Davis-Bacon and Related Act Requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract

9. **Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

10. (i) **Certification of Eligibility.** By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(e)(1) or to be

awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(e)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1 01 0, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part: "Whoever, for the purpose of . . . influencing in any way the action of such Administration..... makes, utters or publishes any statement knowing the same to be false..... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

11. **Complaints, Proceedings, or Testimony by Employees.** No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

B. **Contract Work Hours and Safety Standards Act.** The provisions of this paragraph B are applicable where the amount of the prime contract exceeds \$100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

(3) **Withholding for unpaid wages and liquidated damages.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assiated contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) **Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

C. Health and Safety. The provisions of this paragraph C are applicable where the amount of the prime contract exceeds \$100,000.

(1) No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

(2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1928 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96). 40 USC 3701 et seq.

(3) The contractor shall include the provisions of this paragraph in every subcontract so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontractor as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

SPECIAL CONDITIONS PERTAINING TO HAZARDS SAFETY STANDARDS AND ACCIDENT PREVENTION

A. Lead-Based Paint Hazards

(Applicable to contracts for construction or rehabilitation of residential structures)

The construction or rehabilitation of residential structures is subject to all HUD Lead-Based Paint regulations including The Lead-Based Paint Poisoning Prevention Act of 1971, The Residential Lead-Based paint Hazard Reduction Act of 1992, and 24 CFR Part 35 "Requirements for Notification, Evaluation and Reduction of Lead-Based paint Hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance", effective September 15, 2000. In particular, but not limited to, the Consultant shall comply with the provisions for the notifications, evaluations, reductions, and abatement of lead-base hazards under Subpart J of said regulation pertaining to rehabilitation.

B. Use of Explosives (Modify as Required)

When the use of explosives is necessary for the prosecution of the work, the Consultant shall observe all local, state and Federal laws in purchasing and handling explosives. The Consultant shall take all necessary precaution to protect completed work neighboring property, water lines, or other underground structures. Where there is danger to structures or property from blasting, the charges shall be reduced and the material shall be covered with suitable, timber, steel or rope mats.

The Consultant shall notify all owners of public utility property of intention to use explosives at least eight hours before blasting is done, close to such property. Any supervision or direction of use of explosives by the Engineer does not in any reduce the responsibility of the Consultant or his Surety for damages that may be caused by such use.

C. Danger Signals and Safety Devices (Modify as Required)

The Consultant shall make all necessary precautions to guard against damages to property and injury to persons. He shall put up and maintain in good condition, sufficient red or warning lights at night, suitable barricades and other devices necessary to protect the public. In case the Consultant fails or neglects to take such precautions, the Owner may have such lights and barricades installed and charge the cost of this work to the Consultant. Such action by the Owner does not relieve the Consultant of any liability incurred under these specifications or contract.

RIVERSIDE RENAISSANCE



BRYANT PARK FITNESS CENTER



- Fitness Rooms
- Exercise Equipment
- Boxing Ring

Funded by: U.S. Department of Housing and Urban Development

Community Development Block Grant Program

Equal Opportunity - Affirmative Action Employer

Executive Order 11246 and Section 3 of Housing and Urban Development Act of 1968

WARD 6 PROJECT
COUNCILMEMBER

NANCY HART

MAYOR

RONALD O. LOVERIDGE

COUNCIL MEMBERS

MIKE GARDNER

ANDY MELENDREZ

RUSTY BAILEY

PAUL DAVIS

CHRIS MAC ARTHUR

STEVE ADAMS

CITY MANAGER

BRADLEY J. HUDSON

SAMPLE - SITE SIGN FOR HUD FUNDED PROJECTS

EXHIBIT C-4

PROJECT AREA TRAINEES, EMPLOYEES AND BUSINESSES

The work to be performed under this contract is on a project assisted under a program providing direct Federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u. Section 3 requires that to the greatest extent feasible opportunities for training and employment be given lower income residents of the project area and contracts for work in connection with the project be awarded to business concerns which are located in, or owned in substantial part by persons residing in, the area of the project.

The parties to this contract will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 CFR Part 135, and all applicable rules and orders of the Housing and Urban Development Department issued thereunder prior to the execution of this contract. The parties to this contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.

The Contractor shall send to each labor organization or representative of workers with which Contractor has a collective bargaining agreement or other contract or understanding, if any, a notice advising the said labor organization or workers= representative of Contractor=s commitments under this Section 3 clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.

Contractor shall include this Section 3 clause in every subcontract for work in connection with the project and shall, at the direction of the City, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 CFR Part 135. Contractor shall not subcontract with any subcontractor where Contractor has notice or knowledge that the latter has been found in violation of regulations under 24 CFR Part 135 and shall not let any subcontract unless the subcontractor has first provided Contractor with a preliminary statement of ability to comply with the requirements of these regulations.

Compliance with the provisions of Section 3, the regulations set forth in 24 CFR Part 135, and all applicable rules and orders of the Housing and Urban Development Department issued thereunder prior to the execution of the contract, shall be a condition of the Federal financial assistance provided to the project, binding upon the City, its successors, and assigns. Failure to fulfill these requirements shall subject the City, its successors and assigns, and Contractor and Contractor=s subcontractors, to those sanctions specified by the grant or loan agreement or contract through which Federal assistance is provided, and to such sanctions as are specified by 24 CF Part 135.

NOTE: The project area is defined as the city limits of the City of Riverside, California.

NOTICE TO ALL EMPLOYEES



Working on Federal or Federally Financed Construction Projects

MINIMUM WAGES

You must be paid not less than the wage rate in the schedule posted with this Notice for the kind of work you perform.

OVERTIME

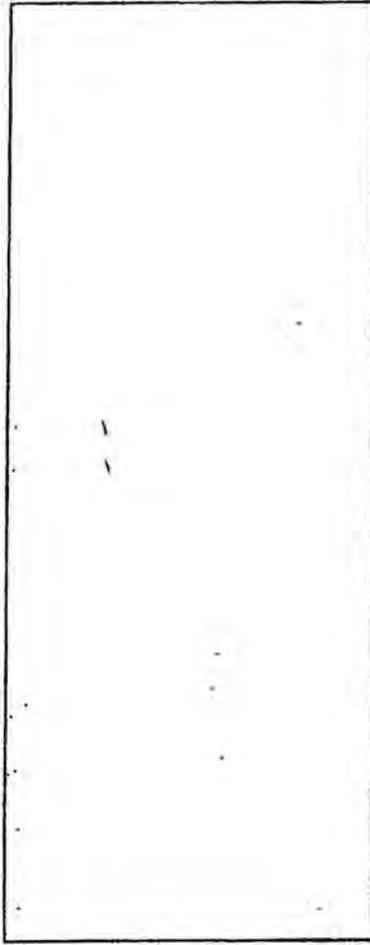
You must be paid not less than one and one-half times your basic rate of pay for all hours worked over 40 a week. There are some exceptions.

APPRENTICES

Apprentice rates apply only to apprentices properly registered under approved Federal or State apprenticeship programs.

PROPER PAY

If you do not receive proper pay, contact the Contracting Officer listed below:



or you may contact the nearest office of the Wage and Hour Division, U.S. Department of Labor. The Wage and Hour Division has offices in several hundred communities throughout the country. They are listed in the U.S. Government section of most telephone directories under:

**U.S. Department of Labor
Employment Standards Administration**

WH Publication 1321
Revised January 1986

★ U.S. GOVERNMENT PRINTING OFFICE: 1985-209-856

EXHIBIT C-6

U.S. Department of Labor
Employment Standards
Administration
Wage and Hour Division



NOTICIA A TODOS EMPLEADOS



Trabajo en Proyectos de Construcción Federales o Financiados Federalmente

SALARIO MINIMO

Usted debe ser pagado no menos del salario listado en la programación acompañando esta NOTICIA por el tipo de trabajo que usted hace.

TIEMPO EXTRA (OVERTIME)

Usted debe ser pagado no menos que tiempo y medio de su salario básico por todas horas trabajadas arriba de 40 en una semana. Hay algunas excepciones.

APRENDIZES

Salario de aprendiz se aplica solamente a aprendizes apropiadamente registrados en programas de aprendizaje aprobados por agencias Estatales o Federales.

UELDO PROPIADO

Si no recibe el seuld apropiado comuníquese con el Agente de Contratos nombrado abajo. Se habla español.

Gwendolyn P. Tolbert, Director
(213) 894-8000, Ext. 3200

O comuníquese con la oficina más cercana de la División de Salario y Hora del Departamento de Asuntos Laborales de los Estados Unidos (Wage and Hour Division, U.S. Department of Labor). La División de alario y Hora tiene oficinas en cienes de comunidades por todo el país. Ellas estan listadas en la sección de gobierno de los Estados Unidos en la mayoría de directorios telefónicos bajo:

**U.S. Department of Labor
Employment Standards Administration**

U.S. Department of Labor
Employment Standards
Administration
Wage and Hour Division



EXHIBIT C-8

Federal (Davis Bacon) Wage Decision

The most current Federal Wage Decision in effect 10 days prior to the bid opening date must be appended to the Bid Specification and Contract.

The most current Federal Wage Decision in effect 10 days prior to the bid opening date must be appended to the Bid Specification and Contract

Federal (Davis Bacon) Wage Decision

CA160036 MOD 9 REVISED 08/26/16 CA36
***** THIS WAGE DETERMINATION WAS REPLACED ON 08/26/16*****
General Decision Number: CA160036 08/12/2016

Superseded General Decision Number: CA20150036

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

County: Riverside County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 01/08/2016 |
| 1 | 01/15/2016 |
| 2 | 02/26/2016 |
| 3 | 03/04/2016 |
| 4 | 04/01/2016 |
| 5 | 05/20/2016 |
| 6 | 07/08/2016 |
| 7 | 07/22/2016 |
| 8 | 07/29/2016 |
| 9 | 08/12/2016 |

ASBE0005-002 07/01/2015

| | Rates | Fringes |
|--|----------|---------|
| Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)..... | \$ 36.74 | 19.49 |
| Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls)..... | \$ 25.38 | 16.81 |
| ----- | | |

ASBE0005-004 06/29/2015

| Rates | Fringes |
|-------|---------|
|-------|---------|

Asbestos Removal
 worker/hazardous material
 handler (Includes
 preparation, wetting,
 stripping, removal,
 scrapping, vacuuming, bagging
 and disposing of all
 insulation materials from
 mechanical systems, whether
 they contain asbestos or not)....\$ 18.06 10.57

BOIL0092-003 10/01/2012

| | Rates | Fringes |
|------------------|----------|---------|
| BOILERMAKER..... | \$ 41.17 | 28.27 |

* BRCA0004-011 05/01/2016

| | Rates | Fringes |
|--------------------------------|----------|---------|
| BRICKLAYER; MARBLE SETTER..... | \$ 38.38 | 14.17 |

*The wage scale for prevailing wage projects performed in
 Blythe, China lake, Death Valley, Fort Irwin, Twenty-Nine
 Palms, Needles and 1-15 corridor (Barstow to the Nevada
 State Line) will be Three Dollars (\$3.00) above the
 standard San Bernardino/Riverside County hourly wage rate

BRCA0018-004 06/01/2014

| | Rates | Fringes |
|----------------------|----------|---------|
| MARBLE FINISHER..... | \$ 28.45 | 11.38 |
| TILE FINISHER..... | \$ 23.78 | 9.84 |
| TILE LAYER..... | \$ 35.14 | 14.33 |

BRCA0018-010 09/01/2013

| | Rates | Fringes |
|-----------------------------|----------|---------|
| TERRAZZO FINISHER..... | \$ 26.59 | 10.34 |
| TERRAZZO WORKER/SETTER..... | \$ 33.63 | 11.13 |

CARP0409-001 07/01/2015

| | Rates | Fringes |
|--|----------|---------|
| CARPENTER | | |
| (1) Carpenter, Cabinet Installer, Insulation Installer, Hardwood Floor Worker and acoustical installer..... | \$ 39.83 | 11.58 |
| (2) Millwright..... | \$ 40.90 | 11.58 |
| (3) Piledrivermen/Derrick Bargeman, Bridge or Dock Carpenter, Heavy Framer, Rock Bargeman or Scowman, Rockslinger, Shingler (Commercial)..... | \$ 40.53 | 11.58 |
| (4) Pneumatic Nailer, Power Stapler..... | \$ 37.60 | 11.58 |

| | | |
|--------------------------------------|----------|-------|
| (5) Sawfiler..... | \$ 37.44 | 11.58 |
| (6) Scaffold Builder..... | \$ 28.55 | 11.58 |
| (7) Table Power Saw Operator..... | \$ 37.45 | 11.58 |

FOOTNOTE: Work of forming in the construction of open cut sewers or storm drains, on operations in which horizontal lagging is used in conjunction with steel H-Beams driven or placed in pre- drilled holes, for that portion of a lagged trench against which concrete is poured, namely, as a substitute for back forms (which work is performed by piledrivers): \$0.13 per hour additional.

 CARP0409-002 07/01/2008

| | Rates | Fringes |
|---------------------------|-----------|---------|
| Diver | | |
| (1) Wet..... | \$ 663.68 | 9.82 |
| (2) Standby..... | \$ 331.84 | 9.82 |
| (3) Tender..... | \$ 323.84 | 9.82 |
| (4) Assistant Tender..... | \$ 299.84 | 9.82 |

Amounts in "Rates" column are per day

 CARP0409-005 07/01/2015

| | Rates | Fringes |
|------------------------------|----------|---------|
| Drywall | | |
| DRYWALL INSTALLER/LATHER.... | \$ 40.40 | 15.03 |
| STOCKER/SCRAPPER..... | \$ 10.00 | 7.17 |

 CARP0409-008 08/01/2010

| | Rates | Fringes |
|----------------------------------|----------|---------|
| Modular Furniture Installer..... | \$ 17.00 | 7.41 |

 ELEC0440-001 06/27/2016

| | Rates | Fringes |
|---------------------------------------|----------|----------|
| ELECTRICIAN | | |
| INSIDE ELECTRICIAN..... | \$ 36.56 | 3%+22.01 |
| INTELLIGENT TRANSPORTATION SYSTEMS | | |
| Electrician..... | \$ 36.56 | 23.11 |
| Technician..... | \$ 27.42 | 22.84 |

ZONE PAY: Zone A: Free travel zone for all contractors performing work in Zone A.
 Zone B: Any work performed in Zone (B) shall add \$12.00 per hour to the current wage scale. Zone (B) shall be the area from the eastern perimeter of Zone (A) to a line which runs north and south beginning at Little Morongo Canyon (San Bernardino/Riverside County Line), Southeast along the Coachella Tunnels, Colorado River Aqueduct and Mecca Tunnels to Pinkham Wash then South to Box Canyon Road, then southwest along Box Canyon Road to Highway 195 west onto 195 south to Highway 86 to Riverside/Imperial County Line.

 ELEC0440-004 05/26/2014

COMMUNICATIONS AND SYSTEMS WORK

| | Rates | Fringes |
|-----------------------|----------|----------|
| Communications System | | |
| Installer..... | \$ 28.38 | 4%+11.45 |
| Technician..... | \$ 30.18 | 4%+11.45 |

SCOPE OF WORK:

Installation, testing, service and maintenance of systems utilizing the transmission and/or transference of voice, sound, vision and digital for commercial, educational, security and entertainment purposes for the following: TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call systems, radio page, school intercom and sound, burglar alarms, fire alarms, and low voltage master clock systems in commercial buildings. Communication Systems that transmit or receive information and/or control systems that are intrinsic to the above listed systems; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding all other data systems or multiple systems which include control function or power supply; excluding installation of raceway systems, conduit systems, line voltage work, and energy management systems. Does not cover work performed at China Lake Naval Ordnance Test Station.

 ELEC1245-001 06/01/2015

| | Rates | Fringes |
|--|----------|---------|
| LINE CONSTRUCTION | | |
| (1) Lineman; Cable splicer.. | \$ 52.85 | 15.53 |
| (2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)..... | \$ 42.21 | 14.32 |
| (3) Groundman..... | \$ 32.28 | 14.03 |
| (4) Powderman..... | \$ 47.19 | 14.60 |

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

 ELEV0018-001 01/01/2015

| | Rates | Fringes |
|------------------------|----------|---------|
| ELEVATOR MECHANIC..... | \$ 49.90 | 28.38 |

FOOTNOTE:

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
 PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after

Thanksgiving, and Christmas Day.

ENGI0012-003 07/06/2015

| | Rates | Fringes |
|--|----------|---------|
| OPERATOR: Power Equipment (All Other Work) | | |
| GROUP 1..... | \$ 39.95 | 23.35 |
| GROUP 2..... | \$ 40.73 | 23.35 |
| GROUP 3..... | \$ 41.02 | 23.35 |
| GROUP 4..... | \$ 42.51 | 23.35 |
| GROUP 5..... | \$ 41.86 | 23.35 |
| GROUP 6..... | \$ 41.83 | 23.35 |
| GROUP 8..... | \$ 42.84 | 23.35 |
| GROUP 9..... | \$ 42.19 | 23.35 |
| GROUP 10..... | \$ 42.96 | 23.35 |
| GROUP 11..... | \$ 42.31 | 23.35 |
| GROUP 12..... | \$ 43.13 | 23.35 |
| GROUP 13..... | \$ 43.23 | 23.35 |
| GROUP 14..... | \$ 43.26 | 23.35 |
| GROUP 15..... | \$ 43.34 | 23.35 |
| GROUP 16..... | \$ 43.46 | 23.35 |
| GROUP 17..... | \$ 43.63 | 23.35 |
| GROUP 18..... | \$ 43.73 | 23.35 |
| GROUP 19..... | \$ 43.84 | 23.35 |
| GROUP 20..... | \$ 43.96 | 23.35 |
| GROUP 21..... | \$ 44.13 | 23.35 |
| GROUP 22..... | \$ 44.23 | 23.35 |
| GROUP 23..... | \$ 44.34 | 23.35 |
| GROUP 24..... | \$ 44.46 | 23.35 |
| GROUP 25..... | \$ 44.63 | 23.35 |
| OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting) | | |
| GROUP 1..... | \$ 41.30 | 23.35 |
| GROUP 2..... | \$ 42.08 | 23.35 |
| GROUP 3..... | \$ 42.37 | 23.35 |
| GROUP 4..... | \$ 42.51 | 23.35 |
| GROUP 5..... | \$ 42.73 | 23.35 |
| GROUP 6..... | \$ 42.84 | 23.35 |
| GROUP 7..... | \$ 42.96 | 23.35 |
| GROUP 8..... | \$ 43.13 | 23.35 |
| GROUP 9..... | \$ 43.30 | 23.35 |
| GROUP 10..... | \$ 44.30 | 23.35 |
| GROUP 11..... | \$ 45.30 | 23.35 |
| GROUP 12..... | \$ 46.30 | 23.35 |
| GROUP 13..... | \$ 47.30 | 23.35 |
| OPERATOR: Power Equipment (Tunnel Work) | | |
| GROUP 1..... | \$ 41.80 | 23.35 |
| GROUP 2..... | \$ 42.58 | 23.35 |
| GROUP 3..... | \$ 42.87 | 23.35 |
| GROUP 4..... | \$ 43.01 | 23.35 |
| GROUP 5..... | \$ 43.23 | 23.35 |
| GROUP 6..... | \$ 43.34 | 23.35 |
| GROUP 7..... | \$ 43.46 | 23.35 |

PREMIUM PAY:
 \$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp

Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter(concrete or

asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (guniting work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar

types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar

types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator;
Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between

Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a thin strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada

state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

ENGI0012-004 08/01/2015

| | Rates | Fringes |
|---|----------|---------|
| OPERATOR: Power Equipment (DREDGING) | | |
| (1) Leverman..... | \$ 49.50 | 23.60 |
| (2) Dredge dozer..... | \$ 43.53 | 23.60 |
| (3) Deckmate..... | \$ 43.42 | 23.60 |
| (4) Winch operator (stern winch on dredge)..... | \$ 42.87 | 23.60 |
| (5) Fireman-Oiler, Deckhand, Bargeman, Leveehand..... | \$ 42.33 | 23.60 |
| (6) Barge Mate..... | \$ 42.94 | 23.60 |

IRON0377-002 07/01/2016

| | Rates | Fringes |
|--|----------|---------|
| Ironworkers: | | |
| Fence Erector..... | \$ 28.33 | 20.64 |
| Ornamental, Reinforcing and Structural..... | \$ 34.75 | 29.20 |

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0300-005 01/01/2016

| | Rates | Fringes |
|-------------------------------|----------|---------|
| Asbestos Removal Laborer..... | \$ 30.43 | 16.07 |

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing

material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LAB00345-001 07/03/2016

| | Rates | Fringes |
|------------------|----------|---------|
| LABORER (GUNITE) | | |
| GROUP 1..... | \$ 37.89 | 20.50 |
| GROUP 2..... | \$ 36.94 | 20.50 |
| GROUP 3..... | \$ 33.40 | 20.50 |

FOOTNOTE: GUNITE PREMIUM PAY: Workers working from a Bosn'n's Chair or suspended from a rope or cable shall receive 40 cents per hour above the foregoing applicable classification rates. Workers doing gunite and/or shotcrete work in a tunnel shall receive 35 cents per hour above the foregoing applicable classification rates, paid on a portal-to-portal basis. Any work performed on, in or above any smoke stack, silo, storage elevator or similar type of structure, when such structure is in excess of 75'-0" above base level and which work must be performed in whole or in part more than 75'-0" above base level, that work performed above the 75'-0" level shall be compensated for at 35 cents per hour above the applicable classification wage rate.

GUNITE LABORER CLASSIFICATIONS

- GROUP 1: Rodmen, Nozzlemen
- GROUP 2: Gunmen
- GROUP 3: Reboundmen

LAB01184-001 07/04/2016

| | Rates | Fringes |
|--|----------|---------|
| Laborers: (HORIZONTAL DIRECTIONAL DRILLING) | | |
| (1) Drilling Crew Laborer... | \$ 33.65 | 13.95 |
| (2) Vehicle Operator/Hauler... | \$ 33.82 | 13.95 |
| (3) Horizontal Directional Drill Operator..... | \$ 35.67 | 13.95 |
| (4) Electronic Tracking Locator..... | \$ 37.67 | 13.95 |
| Laborers: (STRIPING/SLURRY SEAL) | | |
| GROUP 1..... | \$ 34.86 | 17.03 |
| GROUP 2..... | \$ 36.16 | 17.03 |
| GROUP 3..... | \$ 38.17 | 17.03 |
| GROUP 4..... | \$ 39.91 | 17.03 |

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment

repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LAB01184-002 07/04/2016

| | Rates | Fringes |
|------------------|----------|---------|
| LABORER (TUNNEL) | | |
| GROUP 1..... | \$ 38.09 | 19.07 |
| GROUP 2..... | \$ 38.41 | 19.07 |
| GROUP 3..... | \$ 38.87 | 19.07 |
| GROUP 4..... | \$ 39.56 | 19.07 |
| LABORER | | |
| GROUP 1..... | \$ 32.34 | 19.07 |
| GROUP 2..... | \$ 32.89 | 19.07 |
| GROUP 3..... | \$ 33.44 | 19.07 |
| GROUP 4..... | \$ 34.99 | 19.07 |
| GROUP 5..... | \$ 35.34 | 19.07 |

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete screeding for rough strike-off; Concrete, water curing; Demolition laborer, the cleaning of brick if performed by a worker performing any other phase of demolition work, and the cleaning of lumber; Fire watcher, limber, brush loader, piler and debris handler; Flag person; Gas, oil and/or water pipeline laborer; Laborer, asphalt-rubber material loader; Laborer, general or construction; Laborer, general clean-up; Laborer, landscaping; Laborer, jetting; Laborer, temporary water and air lines; Material hose operator (walls, slabs, floors and decks); Plugging, filling of shee bolt holes; Dry packing of concrete; Railroad maintenance, repair track person and road beds; Streetcar and railroad construction track laborers; Rigging and signaling; Scaler; Slip form raiser; Tar and mortar; Tool crib or tool house laborer; Traffic control by any method; Window cleaner; Wire mesh pulling - all concrete pouring operations

GROUP 2: Asphalt shoveler; Cement dumper (on 1 yd. or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute handler, pouring concrete, the handling of the chute from readymix trucks, such as walls, slabs, decks, floors, foundation, footings, curbs, gutters and sidewalks; Concrete curer, impervious membrane and form oiler; Cutting torch operator (demolition); Fine grader, highways and street paving, airport, runways and similar type heavy construction; Gas, oil and/or water pipeline wrapper - pot tender and form person; Guinea chaser; Headerboard person - asphalt; Laborer, packing rod steel and pans; Membrane vapor barrier installer; Power broom sweeper (small); Riprap stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Sandblaster (pot tender); Septic tank digger and installer(lead); Tank scaler and cleaner; Tree climber, faller, chain saw operator, Pittsburgh chipper and similar type brush shredder; Underground laborer, including caisson bellower

GROUP 3: Buggymobile person; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2-1/2 ft. drill steel or longer; Dri-pak-it machine; Gas, oil and/or water pipeline wrapper, 6-in. pipe and over, by any method, inside and out; High scaler (including drilling of same); Hydro seeder and similar type; Impact wrench multi-plate; Kettle person, pot person and workers applying asphalt, lay-kold, creosote, lime caustic and similar type materials ("applying" means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operator of pneumatic, gas, electric tools, vibrating machine, pavement breaker, air blasting, come-alongs, and similar mechanical tools not separately classified herein; Pipelayer's backup person, coating, grouting, making of joints, sealing, caulking, diapering and including rubber gasket joints, pointing and any and all other services; Rock slinger; Rotary scarifier or multiple head concrete chipping scarifier; Steel headerboard and guideline setter; Tamper, Barko, Wacker and similar type; Trenching machine, hand-propelled

GROUP 4: Asphalt raker, lute person, ironer, asphalt dump person, and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), grinder or sander; Concrete saw person, cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Head rock slinger; Laborer, asphalt- rubber distributor boot person; Laser beam in connection with laborers' work; Oversize concrete vibrator operator, 70 lbs. and over; Pipelayer performing all services in the laying and installation of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid gas, air, or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No-joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzle person), water blasting, Porta Shot-Blast

GROUP 5: Blaster powder, all work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller: All power drills, excluding jackhammer, whether

core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power; Toxic waste removal

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Batch plant laborer; Changehouse person; Dump person; Dump person (outside); Swamper (brake person and switch person on tunnel work); Tunnel materials handling person; Nipper; Pot tender, using mastic or other materials (for example, but not by way of limitation, shotcrete, etc.)

GROUP 2: Chucktender, cabledtender; Loading and unloading agitator cars; Vibrator person, jack hammer, pneumatic tools (except driller); Bull gang mucker, track person; Concrete crew, including rodder and spreader

GROUP 3: Blaster, driller, powder person; Chemical grout jet person; Cherry picker person; Grout gun person; Grout mixer person; Grout pump person; Jackleg miner; Jumbo person; Kemper and other pneumatic concrete placer operator; Miner, tunnel (hand or machine); Nozzle person; Operating of troweling and/or grouting machines; Powder person (primer house); Primer person; Sandblaster; Shotcrete person; Steel form raiser and setter; Timber person, retimber person, wood or steel; Tunnel Concrete finisher

GROUP 4: Diamond driller; Sandblaster; Shaft and raise work

* LAB01184-004 07/01/2016

| | Rates | Fringes |
|-------------------|----------|---------|
| Brick Tender..... | \$ 30.52 | 18.56 |

LAB01414-001 08/05/2015

| | Rates | Fringes |
|------------------------------|----------|---------|
| LABORER | | |
| PLASTER CLEAN-UP LABORER.... | \$ 30.16 | 17.11 |
| PLASTER TENDER..... | \$ 32.71 | 17.11 |

Work on a swing stage scaffold: \$1.00 per hour additional.

PAIN0036-001 07/01/2015

| | Rates | Fringes |
|--|----------|---------|
| Painters: (Including Lead Abatement) | | |
| (1) Repaint (excludes San Diego County)..... | \$ 27.29 | 12.83 |
| (2) All Other Work..... | \$ 30.72 | 12.83 |

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-008 10/01/2015

| | Rates | Fringes |
|-----------------------------|----------|---------|
| DRYWALL FINISHER/TAPER..... | \$ 36.18 | 16.82 |

 PAIN0036-015 06/01/2016

| | Rates | Fringes |
|--------------|----------|---------|
| GLAZIER..... | \$ 41.70 | 21.13 |

FOOTNOTE: Additional \$1.25 per hour for work in a condor,
 from the third (3rd) floor and up Additional \$1.25 per
 hour for work on the outside of the building from a swing
 stage or any suspended contrivance, from the ground up

 PAIN1247-002 01/01/2016

| | Rates | Fringes |
|-----------------------|----------|---------|
| SOFT FLOOR LAYER..... | \$ 29.85 | 14.01 |

 PLAS0200-009 08/05/2015

| | Rates | Fringes |
|----------------|----------|---------|
| PLASTERER..... | \$ 38.44 | 13.77 |

 PLAS0500-002 07/01/2016

| | Rates | Fringes |
|-----------------------------------|----------|---------|
| CEMENT MASON/CONCRETE FINISHER... | \$ 33.30 | 23.33 |

 PLUM0016-001 07/01/2015

| | Rates | Fringes |
|--|----------|---------|
| PLUMBER/PIPEFITTER Plumber and Pipefitter All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work..... | \$ 45.96 | 20.71 |
| Work ONLY on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space..... | \$ 44.54 | 19.73 |
| Work ONLY on strip malls, light commercial, tenant improvement and remodel work..... | \$ 35.16 | 18.06 |

 PLUM0345-001 07/01/2014

Rates Fringes

PLUMBER

| | | |
|---------------------------------|-------|-------|
| Landscape/Irrigation Fitter..\$ | 29.27 | 19.75 |
| Sewer & Storm Drain Work....\$ | 33.24 | 17.13 |

* ROOF0036-002 08/01/2015

| | Rates | Fringes |
|-------------|----------|---------|
| ROOFER..... | \$ 35.07 | 14.40 |

FOOTNOTE: Pitch premium: Work on which employees are exposed to pitch fumes or required to handle pitch, pitch base or pitch impregnated products, or any material containing coal tar pitch, the entire roofing crew shall receive \$1.75 per hour "pitch premium" pay.

SFCA0669-002 01/01/2016

| | Rates | Fringes |
|-----------------------|----------|---------|
| SPRINKLER FITTER..... | \$ 35.48 | 20.28 |

SHEE0105-003 07/01/2016

LOS ANGELES (South of a straight line drawn between Gorman and Big Pines)and Catalina Island, INYO, KERN (Northeast part, East of Hwy 395), MONO ORANGE, RIVERSIDE, AND SAN BERNARDINO COUNTIES

| | Rates | Fringes |
|---|----------|---------|
| SHEET METAL WORKER | | |
| (1) Commercial - New Construction and Remodel work..... | \$ 41.86 | 26.88 |
| (2) Industrial work including air pollution control systems, noise abatement, hand rails, guard rails, excluding aritechtrual sheet metal work, excluding A-C, heating, ventilating systems for human comfot... | \$ 41.86 | 26.88 |

TEAM0011-002 07/01/2015

| | Rates | Fringes |
|---------------|----------|---------|
| TRUCK DRIVER | | |
| GROUP 1..... | \$ 28.24 | 25.24 |
| GROUP 2..... | \$ 28.39 | 25.24 |
| GROUP 3..... | \$ 28.52 | 25.24 |
| GROUP 4..... | \$ 28.71 | 25.24 |
| GROUP 5..... | \$ 28.74 | 25.24 |
| GROUP 6..... | \$ 28.77 | 25.24 |
| GROUP 7..... | \$ 29.02 | 25.24 |
| GROUP 8..... | \$ 29.27 | 25.24 |
| GROUP 9..... | \$ 29.47 | 25.24 |
| GROUP 10..... | \$ 29.77 | 25.24 |
| GROUP 11..... | \$ 30.27 | 25.24 |
| GROUP 12..... | \$ 30.70 | 25.24 |

WORK ON ALL MILITARY BASES:

PREMIUM PAY: \$3.00 per hour additional.

[29 palms Marine Base, Camp Roberts, China Lake, Edwards AFB, El Centro Naval Facility, Fort Irwin, Marine Corps Logistics Base at Nebo & Yermo, Mountain Warfare Training Center, Bridgeport, Point Arguello, Point Conception, Vandenberg AFB]

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Truck driver

GROUP 2: Driver of vehicle or combination of vehicles - 2 axles; Traffic control pilot car excluding moving heavy equipment permit load; Truck mounted broom

GROUP 3: Driver of vehicle or combination of vehicles - 3 axles; Boot person; Cement mason distribution truck; Fuel truck driver; Water truck - 2 axle; Dump truck, less than 16 yds. water level; Erosion control driver

GROUP 4: Driver of transit mix truck, under 3 yds.; Dumpcrete truck, less than 6-1/2 yds. water level

GROUP 5: Water truck, 3 or more axles; Truck greaser and tire person (\$0.50 additional for tire person); Pipeline and utility working truck driver, including winch truck and plastic fusion, limited to pipeline and utility work; Slurry truck driver

GROUP 6: Transit mix truck, 3 yds. or more; Dumpcrete truck, 6-1/2 yds. water level and over; Vehicle or combination of vehicles - 4 or more axles; Oil spreader truck; Dump truck, 16 yds. to 25 yds. water level

GROUP 7: A Frame, Swedish crane or similar; Forklift driver; Ross carrier driver

GROUP 8: Dump truck, 25 yds. to 49 yds. water level; Truck repair person; Water pull - single engine; Welder

GROUP 9: Truck repair person/welder; Low bed driver, 9 axles or over

GROUP 10: Dump truck - 50 yds. or more water level; Water pull - single engine with attachment

GROUP 11: Water pull - twin engine; Water pull - twin engine with attachments; Winch truck driver - \$1.25 additional when operating winch or similar special attachments

GROUP 12: Boom Truck 17K and above

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after

award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage

determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

CONTRACT RELATED DOCUMENTS

PERFORMANCE BOND

Bond No.

Premium:

KNOW ALL PERSONS BY THESE PRESENTS THAT:

WHEREAS, on _____, 2016, the CITY OF RIVERSIDE ("CITY") awarded to _____ ("PRINCIPAL") a contract for performance of the work described as **2015/2016 CDBG Street and ADA Footpath Improvements Project; Bid No. 7424** ("CONTRACT"), the terms and conditions of which are incorporated herein by reference; and

WHEREAS, the CONTRACT requires PRINCIPAL to furnish this Performance Bond ("BOND") to guarantee PRINCIPAL's faithful performance of all provisions of the CONTRACT; and

WHEREAS, _____ ("SURETY"), a corporation legally authorized to execute and furnish performance bonds as sole surety in the State of California, is willing to act as PRINCIPAL's SURETY in the making and giving of this BOND.

NOW, THEREFORE, we PRINCIPAL and SURETY hereby hold and firmly bind ourselves to pay to CITY in lawful United States currency the principal sum of _____ Dollars (\$_____), for which payment well and truly to be made to CITY or CITY's successors or assigns we hereby bind ourselves and our heirs, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS BOND IS THAT IF PRINCIPAL or PRINCIPAL's heirs, legal representatives, successors or assigns shall in all things stand to, abide by, and well and truly keep and faithfully perform all of the covenants, conditions and promises in the CONTRACT, including its work Guaranty, and all alterations thereof made as therein provided on PRINCIPAL's part to be kept and performed at the time and in the manner specified therein, and in all respects according to their true intent and meaning, and shall indemnify and save harmless CITY and CITY's officers, employees and agents as therein specified, then this obligation shall become null and void; otherwise, it shall be and remain in full force and binding effect.

SURETY hereby agrees that no change in the terms of the CONTRACT or the work to be performed thereunder, or any extension of time for completion thereof, shall in any way relieve it of its obligations under this BOND, and hereby waives notice of any change or extension thereof, and further waives the provisions of California Civil Code sections 2819 and 2845.

If lawsuit is brought by CITY on this BOND, PRINCIPAL and SURETY shall pay to CITY, over and above the principal sum hereof, reasonable costs and attorney's fees which the court is hereby authorized to award.

IN WITNESS WHEREOF, we sign and seal this BOND on _____ .

Correspondence or claims relating to this BOND should be sent to SURETY at the following address:

Telephone Number _____

Principal

By _____ (Seal)

Typed Name and Title

Surety

Attorney-In-Fact (Seal)

Typed Name and Title

Note: Signatures of those executing for SURETY must be acknowledged, and a Power of Attorney attached.

PAYMENT BOND

Bond No.

Premium:

KNOW ALL PERSONS BY THESE PRESENTS THAT:

WHEREAS, on _____, 2016, the CITY OF RIVERSIDE ("CITY") awarded to _____ ("PRINCIPAL") a contract for performance of the work described as **2015/2016 CDBG Street and ADA Footpath Improvements Project; Bid No. 7424** ("CONTRACT"), the terms and conditions of which are incorporated herein by reference; and

WHEREAS, the CONTRACT requires PRINCIPAL to furnish this Payment Bond ("BOND") to secure payment of the claims of persons described in California Civil Code section 3248(b); and

WHEREAS, _____ ("SURETY"), a corporation legally authorized to execute and furnish payment bonds as sole surety in the State of California, is willing to act as PRINCIPAL's SURETY in the giving of this BOND.

NOW, THEREFORE, we PRINCIPAL and SURETY hold and firmly bind ourselves unto CITY and all persons and entities described in California Civil Code section 3248(b) whose claims are not paid by PRINCIPAL in the total sum of _____ Dollars (\$ _____), for which payment well and truly to be made we bind ourselves and our heirs, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS BOND IS THAT IF PRINCIPAL or PRINCIPAL's successors, assigns, or subcontractors fail to pay any of the persons described in California Civil Code section 3181, any amounts due under the California Unemployment Insurance Code with respect to work or labor performed under the CONTRACT or any amounts required to be deducted, withheld and paid over to the California Employment Development Department from the wages of employees of PRINCIPAL and PRINCIPAL's subcontractors pursuant to California Unemployment Insurance Code section 13020 with respect to such work and labor, SURETY will pay for the same in an amount not exceeding the sum stated above, plus all costs and reasonable attorney's fees awarded by any court of competent jurisdiction in any lawsuit brought upon this BOND.

THIS BOND SHALL INURE TO the benefit of all persons and entities described in California Civil Code section 3248(b) so as to give them or their assigns a right of action in any lawsuit brought upon this BOND, and is executed and filed to comply with the Public Works Payment Bond provisions of Chapter 7, Title 15, Part 4, Division 3 of the California Civil Code (commencing at Section 3247) and all amendments thereto, which provisions are incorporated herein by this reference.

IN WITNESS WHEREOF, we sign and seal this BOND on _____.

Correspondence or claims relating to this BOND should be sent to SURETY at the following address:

Principal

By _____ (Seal)

Typed Name and Title

Surety

Attorney-In-Fact (Seal)

Telephone Number _____

Typed Name and Title

Note: Signatures of those executing for SURETY must be acknowledged, and a Power of Attorney attached.

**GENERAL AND/OR AUTOMOBILE LIABILITY
ADDITIONAL INSURED ENDORSEMENT**

CITY OF RIVERSIDE

Named Insured and Address:

Contractor's Name:

Contractor's Address:

General description of agreement(s) and/or activity(s) insured:

Bid 7424 – 2015/2016 CDBG Street and ADA Footpath Improvements Project

Notwithstanding any inconsistent statement in the policy to which this endorsement pertains or in any endorsement now or hereafter attached thereto, it is agreed as follows:

1. The City of Riverside and its officers and employees are additional insured thereunder in relation to those operations, uses, occupations, acts, and activities described generally above with regard to operations performed by or on behalf of the named insured.

2. Such insurance shall be primary, and not contributing with any other insurance maintained by the additional insured.

3. The policy shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits of the company's liability.

4. The policy shall not be subject to cancellation, change in coverage, reduction of limits or non-renewal except after written notice to the Risk Manager of the City of Riverside by certified mail, return receipt requested, not less than thirty (30) days prior to the effective date thereof.

ADDRESS CANCELLATION NOTICE AS FOLLOWS:

Risk Manager
City of Riverside
City Hall, 3900 Main Street
Riverside, California 92522

ISSUE ENDORSEMENT TO:

City of Riverside
c/o City Attorney
City Hall, 3900 Main Street
Riverside, California 92522

Except as stated above and not in conflict with this endorsement, nothing contained herein shall be held to waive, alter or extend any of the limits, agreements, or exclusions of the policy.

| | | |
|-----------------|-----------------|-------------|
| Endorsement No. | Effective Date: | Policy No.: |
|-----------------|-----------------|-------------|

TYPE OF COVERAGE TO WHICH
THIS ENDORSEMENT ATTACHES

POLICY PERIOD:
FROM: _____ TO: _____

LIMITS OF LIABILITY:

**GENERAL AND/OR AUTOMOBILE LIABILITY
ADDITIONAL INSURED ENDORSEMENT
CITY OF RIVERSIDE**

The following inclusions, exclusions, extensions or specific provisions relate to the above coverage. Aggregate limits and separate deductibles, if applicable, are to be noted after the stated coverage. (Attach additional pages if space is insufficient.) Scheduled items or locations are to be identified on an attached sheet.

INCLUDES:

- | | |
|---|--|
| <input type="checkbox"/> Premises & Operations | <input type="checkbox"/> Incidental Medical Malpractice |
| <input type="checkbox"/> Contractual Liability | <input type="checkbox"/> Explosion Hazard |
| <input type="checkbox"/> Independent Contractors | <input type="checkbox"/> Collapse Hazard |
| <input type="checkbox"/> Products/Completed Operations | <input type="checkbox"/> Underground Hazard |
| <input type="checkbox"/> Broad Form Property Damage | <input type="checkbox"/> Garagekeepers Legal Liability (Primary) \$ |
| <input type="checkbox"/> Personal Injury | <input type="checkbox"/> Owned Automobiles |
| <input type="checkbox"/> Broad Form Liability Endorsement | <input type="checkbox"/> Non-owned Automobiles |
| <input type="checkbox"/> Fire Legal Liability | <input type="checkbox"/> Hired Automobiles |
| <input type="checkbox"/> Watercraft Liability | <input type="checkbox"/> |
| <input type="checkbox"/> _____ | <input type="checkbox"/> |

EXCLUDES:

DEDUCTIBLE: A deductible or self-insured retention (strike out one) of \$
applies to _____ coverage.

DEDUCTIBLE APPLIES PER CLAIM (), PER OCCURRENCE ().

Insurance Company

Address

I, _____ (type or print name) hereby declare under penalty of perjury, under the laws of the State of California, that I have the authority to bind the above-named insurance company to this endorsement and by my execution hereof, do so bind said company.

Signature of Authorized Representative
(Original Signature only; No Facsimile Signature or Initialed Signature Accepted)

Executed at _____, _____ on _____, 2016.

Phone No.: (_____) _____

AGREEMENT FOR
PROJECT TITLE BID NO. _____
NAME OF PROJECT
(A CDGB Funds Funded Project)
NAME OF ENTITY

On this _____ day of _____, 20____, the CITY OF RIVERSIDE, a California charter city and municipal corporation ("City"), and NAME AND ADDRESS OF ENTITY, State Contractor's License No. _____ ("Contractor"), mutually agree as follows:

1. **Scope of Work.** Contractor shall furnish all labor, equipment and materials for, and perform the work of 20____-20____ CDBG PROJECT NAME which is covered in Contractor's Bid Proposal (the "Work"), Contractor shall perform the Work in accordance with the provisions and requirements of the following Contract Documents: Notice Inviting Bids (Bid No. _____); City's Public Works Department Special Provisions, Addenda, Standard Drawings, Proposal Forms, and Plan Nos. _____; the 2012 Edition of the Standard Specifications for Public Works Construction ("Standard Specifications") written by Public Works Standards, Inc.; specifically identified sections of the State of California Department of Transportation 2006 Standard Specifications and Standard Plans, Contractor's Proposal and Bid Schedule; Non-Collusion Declaration; this Agreement; and all documents, maps, texts and items referred to in the foregoing documents. These Contract Documents are incorporated herein by reference and are intended to be correlative and constitute Contractor's performance obligations. The provisions of the Public Works Department Special Provisions ("Special Provisions") shall take precedence over any conflicting provisions in the Standard Specifications and the specific terms and conditions of this Agreement shall control and have precedence over any contradictory or inconsistent terms or conditions included in any of the Contract Documents and shall be controlling in questions of interpretation.

2. **Compensation.** City shall pay Contractor the Contract Price of _____ Dollars (\$ _____), which includes all California sales or use tax and County and City taxes, for the performance of all of the Work according to the terms and conditions contained or referred to herein, the completion of the improvements in strict conformity with the provisions hereof and the guarantee of the Work and improvements for the periods set forth in the Project Specifications. Monthly progress payments shall be made in accordance with Section 9-3.2 of the Standard Specifications, as modified by Section 9-3.5 of the Project Specifications.

3. **Securities.** In accordance with Section 22300 of the California Public Contract Code, Contractor may substitute securities for any moneys withheld by City to ensure performance of the Contract Work. Such substitution shall be made at the request and expense of Contractor. Securities equivalent to the amount withheld may be deposited with City or with a California or federally chartered bank as escrow agent. Securities eligible for substitution shall include those listed in Section 16430 of the Government Code, bank or saving and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit or any other security mutually agreed to by Contractor and City.

4. **Notice of Completion.** _____ (_____) days thereafter, City will process a final payment to Contractor for the amounts City deducted and retained from its progress payments, except such sums thereof which are required by law or authorized by this Agreement to be further retained.

3. **Business License.** As a condition of this Agreement, Contractor and all subcontractors shall secure business licenses to operate in the City of Riverside, and shall also secure any other licenses or permits which may be required.

4. **Business Tax and Penalties.** Contractor acknowledges and agrees that with respect to any business tax or penalties thereon, utility charges, invoiced fee or other debt which is owed, or which becomes owed, by Contractor to City, City reserves the right to withhold and offset said amounts from any payments, refunds or reimbursements owed by City to Contractor under this Agreement. Written notice to Contractor of such withholding and offset shall promptly be given by City. In the event of a dispute as to the amount owed or whether such amount is owed to City, City will hold such disputed amount until either the appropriate appeal process has been completed or until the dispute has been resolved.

5. **Extra Materials.** Contractor shall not be compensated for any extra materials used or time expended, over and above the Contract Price, unless prior written approval for the same has been granted by City.

6. **Notice to Proceed.** In accordance with the time allowed per the various Bid Schedules Items, Contractor shall complete all of the Work of the Contract within _____ (_____) calendar days after the date specified to Contractor in the Notice to Proceed issued by City, and shall guarantee the various portions of the Work and material for the periods set forth in the Special Provisions.

7. **Liquidated Damages.** Failure of Contractor to complete the Work within the time allowed will result in damages being sustained by City. Such damages are, and will continue to be, impracticable and extremely difficult to determine. For each consecutive calendar day in excess of the time specified for the completion of Work, as adjusted in accordance with Section 6-6 of the Standard Specifications, Contractor shall pay to City, or have withheld from monies due Contractor, the sum of _____ (\$ _____ .00). Execution of this Agreement shall constitute agreement by City and Contractor that said sum is the minimum value of the costs and actual damage caused by the failure of Contractor to complete the Work within the allotted time. Such sum is liquidated damages and shall not be construed as a penalty, and may be deducted from payments due Contractor if such delay occurs.

8. **Bonds.** Prior to City's execution of this Agreement, Contractor shall furnish City completed forms of the two (2) surety bonds included within the Project Specifications, one (1) as security for the faithful performance of the Contract and one (1) as security for the payment of all persons performing labor and furnishing materials in connection with the Contract. Both bonds shall be in the amount of one hundred percent (100%) of the Contract Price and shall be subscribed by a corporate surety which is authorized to transact surety insurance business in the State of California with a policy holder's Rating of A or higher and a Financial Class of VII or

larger. Should any bond or surety become insufficient, Contractor shall furnish City a new bond within ten (10) days after receiving notice from City. No payments will be due or paid under this Agreement until any and all bond deficiencies have been remedied. Contractor, by execution of this Agreement, acknowledges that bonds are not Contract Documents, but are separate and independent obligations.

9. **Worker's Compensation Insurance.** By executing this Agreement, Contractor certifies that Contractor is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation or to undertake self-insurance before commencing any of the Work. Contractor shall comply with Labor Code section 1861 by signing and filing the workers' compensation certification with the City Attorney.

Prior to City's execution of this Agreement, Contractor shall file with City either 1) a certificate of insurance for self-insurance evidencing that such insurance is in effect, or that Contractor is self-insured for such coverage; or 2) a certified statement that Contractor has no employees, and acknowledging that if Contractor does employ any person, the necessary certificate of insurance will immediately be filed with City. Any certificate filed with the City shall provide that City shall be given ten (10) days prior written notice before modification or cancellation thereof.

Contractor's Workers' Compensation carrier shall be authorized to transact insurance business in the State of California with a policy holder's Rating of A or higher and a Financial Class of VII or larger.

10. **Indemnification.** Except as to the sole negligence, active negligence or willful misconduct of City, Contractor shall defend, indemnify and hold the City, City's officers and employees, harmless from any and all loss, damage, claim for damage, liability, expense or cost, including attorneys' fees, which arises out of or is in any way connected with the performance of Work under this Agreement by Contractor or any of Contractor's employees, subcontractors or agents, and from all claims by Contractor's employees, subcontractors or agents for compensation for services rendered to Contractor in the performance of the Contract, notwithstanding that City may have benefitted from their services. This indemnification provision shall apply to any acts or omissions, willful misconduct or negligent conduct, whether active or passive, on the part of Contractor or any of Contractor's employees, subcontractors or agents.

The parties expressly agree that any payment, attorney fee, cost or expense City incurs or makes to or on behalf of an injured employee under City's self-administered workers' compensation program is included as a loss, expense or cost for the purposes of this Section, and that this Section shall survive the expiration or early termination of the Contract.

11. Contractor agrees, at its cost and expense, to promptly defend the City and the City's employees, officers, managers, agents and council members (collectively the "Parties to be defended") from and against any and all claims, allegations, lawsuits or other legal proceedings which arise out of, or are related to, or are in any manner connected with: (1) the work, activities, operations, or duties of Contractor, or of anyone employed by or working under the Contractor,

or (2) any breach of this Agreement by Contractor. This duty to defend shall apply whether or not such claims, allegations, lawsuits or proceedings have merit or are meritless, or which involve claims or allegations that any of the Parties to be defended were actively, passively or concurrently negligent, or which otherwise assert that the Parties to be defended are responsible, in whole or in part, for any loss, damage or injury. Contractor agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to the City.

12. Commercial General, Automobile Liability Insurance and Builder's Risk Insurance. Prior to City's execution of this Agreement, Contractor shall secure, and shall thereafter maintain until completion of the Contract, such commercial general and automobile liability insurance as shall protect Contractor from claims for damages for personal injury, including accidental death, as well as from claims for property damage which may arise from or which may concern operations under the Contract, whether such operations be by or on behalf of Contractor, any subcontractor or anyone directly or indirectly employed by, connected with or acting for or on behalf of any of them.

All liability insurance shall be issued by an insurance company or companies authorized to transact liability insurance business in the State of California with a policy holder's Rating of A or higher and a Financial Class of VII or larger.

Contractor's policy for commercial general liability shall cover both bodily injury (including death) and property damage (including but not limited to premises-operations liability, products-completed operations liability, independent contractors liability, personal injury liability, and contractual liability), in an amount not less than \$1,000,000 per-occurrence limit/\$2,000,000 aggregate.

Contractor's automobile liability policy shall cover both bodily injury and property damage in an amount not less than \$1,000,000 per-occurrence limit, unless otherwise approved by the City's Risk Manager, or his designee.

Builders Risk Insurance. Shall be written in the amount of the initial Contract Price, plus the value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising the total value for the entire Work at the Site on a replacement cost basis (including code upgrades) without optional deductibles or coinsurance provisions. The policy shall include coverage for fire, theft, extended coverage, vandalism and malicious mischief. If the property insurance requires deductibles/self-insured retention, the Contractor shall pay such deductibles. The amount of such deductibles shall not exceed \$25,000.00.

Policies or original certificates of insurance and completed forms of the Additional Insured Endorsement included within the Special Provisions (or insurance company equivalent acceptable to City) evidencing the coverage required by this Agreement for both commercial general and automobile liability, which coverage is more particularly set forth in Section 7-3 of the Special Provisions, shall be filed with City and shall include City as an additional insured. The policy or policies shall be in the usual form of commercial general liability insurance, but shall also include the following provisions:

“Solely with respect to work done by and on behalf of the named insured for the City of Riverside, it is agreed that the City of Riverside and its officers and employees are added as additional insureds under this policy.”

The policies shall not be canceled unless thirty (30) days prior written notification of intended cancellation has been given to City by certified or registered mail.

The insurance policy or policies shall also comply with the following provisions:

- (A) Policies shall include premises/operations, products completed operations, independent contractors, owners and contractors’ protection, explosion, collapse, underground hazard, broad form contractual, personal injury with employment exclusion deleted, and broad form property damage.
- (B) The policy shall be endorsed to waive any right of subrogation against the City and its sub-consultants, employees, officers, agents and directors for work performed under this Contract.
- (C) If policies are written on a claim made basis, the certificate should so specify and the policy must continue in force for one year after completion of the project. The retroactive date of the coverage must also be limited.
- (D) The policy shall specify that the insurance provided by Contractor will be considered primary and not contributory to any other insurance available to the City of Riverside. Contractor shall provide Form No. CG 20010413 to City.

13. **Prevailing Wage.** Contractor and all subcontractors are required to pay the higher of federally established prevailing wage rates or California general prevailing wage rates of per diem wages and overtime and holiday wages as determined by the U.S. Department of Labor in General Wage Decision No. CA 100036 (9/30/2011 C36 as modified, or by the Director of the Department of Industrial Relations under Section 1720 et seq. of the California Labor Code and implemented by Resolution No. 13346 of the City Council of the City of Riverside. A copy of the above stated federal General Wage Decision is attached hereto as Exhibit “A” and made a part hereof. The Director’s determination of prevailing rates is on file and open to inspection in the office of the City Clerk and is referred to and made a part hereof; the wage rates ascertained, determined and specified in both of those documents are referred to and made a part hereof as though fully set forth herein.

14. **Certified Payroll(s).** Contractor and all subcontractors are required to submit weekly certified payrolls on U.S. Department of Labor Form WH-347, including the Statement of Compliance, to document compliance with prevailing wage requirements. A copy of Department of Labor Form WH-347 is attached hereto as Exhibit “B” and incorporated herein by reference.

If Contractor fails to submit satisfactory payroll records, City shall retain an amount equal to ten percent (10%) of the estimated value of the work performed (excluding Mobilization) from Contractor's payment. This retention shall not exceed \$10,000 nor be less than \$1,000. Retention for failure to submit satisfactory payroll records shall be in addition to all other retentions provided for under this Agreement. The retention for failure to submit satisfactory payroll records for any work period will not be released for payment until all the unsatisfactory payroll records for which the retention was made are corrected, re-submitted and deemed acceptable by the City. Payment of the retention will be made on the next monthly payment due the Contractor following City's receipt of satisfactory payroll records.

15. **Compliance with Laws.** Contractor shall keep fully informed of federal, state and local laws and ordinances and regulations which in any manner affect those employed by Contractor, or in any way affect the performance of services by Contractor pursuant to this Agreement. Contractor shall at all times observe and comply with all such laws, ordinances and regulations, and shall be solely responsible for any failure to comply with all applicable laws, ordinances and regulations. In addition, Contractor is aware of and stipulates that Contractor will comply with the Federal Labor Standards Provisions published by the U.S. Department of Housing and Urban Development attached hereto as Exhibit "C" and incorporated herein by reference.

Contractor further stipulates that Contractor will comply with the following sections of the California Labor Code:

- (A) Section 1775 prescribing sanctions for failure to pay prevailing wage rates;
- (B) Section 1776 requiring the making, keeping and disclosing of detailed payroll records and prescribing sanctions for failure to do so;
- (C) Section 1777.5 prescribing the terms and conditions for employing registered apprentices;
- (D) Section 1810 providing that eight hours of labor shall be a day's work; and
- (E) Section 1813 prescribing sanctions for violations of the provisions concerning eight-hour work days and forty-hour work weeks.

16. Contractor shall be responsible for posting the wage decision and Department of Labor "Notice to Employee" at the job site in a location that is easily accessible to all workers employed at the project and where the wage decision and notice will not be destroyed by inclement weather. A copy of the Department of Labor "Notice to Employees" is attached hereto as Exhibit "D" and incorporated by reference.

17. Contractor shall erect a sign at the job site in conformance with the detail and specifications entitled "Construction Site Sign for HUD Funded Projects" attached hereto as Exhibit "E" and incorporated by reference.

18. Contractor shall maintain all books, documents, papers and records of Contractor's operations and financial activities directly pertinent to this Agreement in accordance with the requirements of the Federal granting agency and the regulations

promulgated by or for it. Such books, documents, papers and records shall be open to inspection, audit, examination, excerpt and transcription by the authorized representatives of City, the Federal granting agency and the Controller General of the United States during regular working hours. Contractor shall keep and maintain said books, documents, papers and records for at least three years after City makes final payments pursuant to this Agreement and all other pending matters are closed or such greater period of time as may be required by the Federal granting agency.

19. Contractor and its subcontractors shall comply with the Special Equal Opportunity Provisions, attached hereto as Exhibit "F" and incorporated herein by reference and implementing Executive Order 11246, as amended, Certification of Non-segregated Facilities, civil rights Act of 1974, Section 109 of the Housing and Community Development Act of 1974, Section 3 of the Housing and Urban Development Act, as amended, Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973.

20. Contractor shall comply with the Special Conditions Pertaining to Hazards Safety Standards and Accident Prevention, regarding lead based paint hazards, use of explosives, and danger signals and safety devices, attached hereto as Exhibit "G" and incorporated herein by reference.

21. Contractor shall comply with the Project Area Trainees, Employees and Businesses requirements of the Housing and Urban Development Act of 1968, as amended, attached hereto as Exhibit "H" and incorporated by reference.

22. Contractor shall comply with the Federal Funding Accountability and Transparency Act (FFATA) of 2006 which requires information on Federal awards be made available to the public via a single, searchable website, which is www.USASpending.gov. Contractor and all subcontractors shall complete and submit the required information for contracts greater than \$25K per requirements attached hereto as Exhibit "I" and incorporated by reference.

23. **Non-Discrimination.** Except as provided in Section 12940 of the California Government Code, Contractor shall not discriminate on the grounds of race, religious creed, color, national origin, ancestry, age, physical handicap, medical condition, including the medical condition of Acquired Immune Deficiency Syndrome (AIDS) or any condition related thereto, marital status, sex or sexual orientation, genetic information, gender, gender identity or gender expression in the performance of the Contract or in the selection and retention of labor forces or the procurement of materials and equipment connected with the performance of any work under the Contract. Contractor shall also comply with the Americans with Disabilities Act.

24. **Notices.** Service of any notices, bills, invoices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by United States mail, postage prepaid and addressed as follows:

City

City of Riverside
Public Works Director
3900 Main Street
Riverside, California 92522

Contractor

Name
Address
City, State, Zip

25. **Venue.** Any action at law or in equity brought by either of the parties hereto for the purpose of enforcing a right or rights provided for by this Agreement shall be tried in a court of competent jurisdiction in the County of Riverside, State of California, and the parties hereby waive all provisions of law providing for a change of venue in such proceedings to any other county

26. **Waiver.** No action or failure to act by the City shall constitute a waiver of any right or duty afforded City under this Agreement, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically provided in this Agreement or as may be otherwise agreed in writing.

27. **Authority.** The individuals executing this Agreement and the instruments referenced herein on behalf of Contractor each represent and warrant that they have the legal power, right and actual authority to bind Contractor to the terms and conditions hereof and thereof.

28. **Severability.** Each provision, term, condition, covenant and/or restriction, in whole and in part, in this Agreement shall be considered severable. In the event any provision, term, condition, covenant and/or restriction, in whole and/or in part, in this Agreement is declared invalid, unconstitutional, or void for any reason, such provision or part thereof shall be severed from this Agreement and shall not affect any other provision, term, condition, covenant and/or restriction of this Agreement and the remainder of the Contract shall continue in full force and effect.

29. **Entire Agreement.** This Agreement contains the entire Agreement of the parties hereto, and supersedes any prior written or oral agreements between them concerning the subject matter contained herein. There are not representations, agreements, arrangements, or understandings, oral or written, between the parties hereto, relating to the subject of this Agreement which are not fully expressed herein.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be duly executed on the day and year first above written.

CITY OF RIVERSIDE, a California
charter city and municipal corporation

NAME
Entity

By _____
City Manager

By _____
(Signature)

Name and Title

Attest _____
City Clerk

By _____
(Signature)

Name and Title

APPROVED AS TO FORM:

By _____
Deputy City Attorney

WORKERS' COMPENSATION CERTIFICATION

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

Dated: _____

NAME OF ENTITY

By _____

Printed Name:

Title:

Exhibit "A"
General Wage Description

Exhibit "B"
Department of Labor Form WH-347

Exhibit "C"
Federal Labor Standards Provisions

Exhibit "D"
Notice to Employees

Exhibit "E"
Construction Site Sign for HUD Funded Projects

Exhibit "F"
Special Equal Opportunity Provisions

Exhibit "G"
Special Conditions Pertaining to Hazards Safety Standards and Accident Prevention

Exhibit "H"
Project Area Trainees, Employees and Business Requirements

Exhibit "T"
Federal Funding Accountability Transparency Act (FFATA)

FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT (FFATA)

The Federal Funding Accountability and Transparency Act (FFATA or “Transparency Act”) was signed on September 26, 2006. The FFATA legislation requires information on federal awards (federal financial assistance and expenditures) be made available to the public via a single, searchable website, which is www.USASpending.gov.

The FFATA Subaward Reporting System (FSRS) is the reporting tool Federal prime awardees (i.e. prime contractors and prime grants recipients) use to capture and report subaward and executive compensation data regarding their first-tier subawards to meet the FFATA reporting requirements. Prime contract awardees will report against sub-contracts awarded and prime grant awardees will report against sub-grants awarded. The sub-award information entered in FSRS will then be displayed on www.USASpending.gov associated with the prime award furthering Federal spending transparency.

The Transparency Act requires information disclosure concerning entities receiving Federal financial assistance through Federal awards such as Federal contracts, sub-contracts, grants, and sub-grants.

Specifically, the Transparency Act’s section 2(b)(1) requires the City to provide the following information about each sub-award(s) greater than \$25,000:

- Name of the entity receiving the award;
- Amount of the award;
- NAICS code for contracts / CFDA program number for grants;
- Information on the award including purpose of the funding action;
- Location of the entity receiving the award and primary location of performance under the award;
- Unique identifier (DUNS #) of the entity receiving the award and the parent entity of the recipient;
- Names and total compensation of the five most highly compensated officers of the entity if the entity:

In the preceding fiscal year, received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986.

I, _____ (print name), hereby agree that:

I read and understand the information provided above.

I acknowledge and agree that:

(Please check one of the following)

_____ (agency name) does not meet the above threshold requiring names and total compensation of the five most highly compensated officers of the entity if the entity.

_____ (agency name) does meet the above threshold*

requiring names and total compensation of the five most highly compensated officers of the entity if the entity.

*If agency meets the above threshold, the agency MUST complete the section below identifying the names and total compensation of the five most highly compensated officers of the entity, signed and dated by the one of the following: President; Executive Director; CEO; Board Chairperson; Finance Director; CFO; or Treasurer.

| | Names of Executive | Total Compensation |
|----|---------------------------|---------------------------|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

Signature of President/Executive Director/Board Chair

Printed Name of President/Executive Director/Board Chair

CORPORATE CERTIFICATE
(If a Corporation)

STATE OF)
)
COUNTY OF) SS:

I _____ HEREBY CERTIFY as follows:

1. That I am the Corporate Secretary for _____, a corporation duly organized, existing and in good standing under the laws of the State of _____;

2. That on _____, a meeting was held by the Board of Directors for _____ corporation wherein the following resolution was duly passed and adopted:

“RESOLVED, that _____, as _____ of corporation, be and is hereby authorized to execute the foregoing document entitled _____ on behalf of the Corporation, and that his/her execution thereof shall be the official act and deed of this Corporation.” (A true and correct copy of said Resolution is attached hereto and incorporated herein by reference.)

I further certify that said Resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the corporation this _____, day of _____, 20_____.

By: _____

Printed Name: _____

Secretary for: _____

(Corporate Seal)

Exhibit "A"

WORKERS' COMPENSATION CERTIFICATION

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

DATED: _____

INSERT CONTRACTOR'S NAME

By _____

Printed Name and Title

PROPOSAL FORMS

Date: _____

PROPOSAL FOR CONSTRUCTING

***2015/2016 CDBG STREET AND ADA FOOTPATH
IMPROVEMENTS PROJECT***

TO THE HONORABLE MAYOR AND CITY COUNCIL OF THE CITY OF RIVERSIDE:

In compliance with the Notice Inviting Bids, published by your Purchasing Services Manager, the undersigned (hereinafter, "Bidder") hereby proposes to furnish all materials, equipment, labor and methods and do all things necessary for the proper construction and completion of the work in strict and complete accord with the specifications now on file with the Purchasing Services Manager at the prices set forth in the attached bid schedule. This proposal shall remain good and shall not be withdrawn for **ninety (90) days** after the date the proposals are opened by the Purchasing Services Manager.

Bidder hereby declares that Bidder has examined the specifications and understands that all items to be furnished shall be for the bid price, and that Bidder has also checked all figures shown and understands that neither the City of Riverside nor any officer thereof will be responsible for any errors or omissions in submitting this proposal.

Bidder understands that the City Council reserves the rights to reject any and all proposals, to waive any irregularities in bidding or to award the Contract to other than the lowest bidder.

Enclosed is the proposal guaranty, made payable to the City of Riverside, for the sum of \$_____, which is not less than ten percent of the total amount of this bid. Bidder understands and acknowledges that this guaranty shall be forfeited under the provisions of Section 20103.5 of the California Public Contract Code if Bidder is not properly licensed to perform the work under the laws of the State of California at the time the Contract is awarded and the Contract is otherwise awardable to Bidder

Bidder hereby agrees that if Bidder is awarded the Contract, Bidder will sign the Contract Agreement in duplicate counterparts and return the counterparts, together with completed Contract surety bonds and insurance confirmations, within **fifteen (15) calendar days** from the date the City mails, or by other means delivers, the Contract Documents to Bidder. Bidder acknowledges that the proposal guaranty submitted herewith is subject to forfeiture for failure to submit these Contract Documents in completed form within the above-required time limit.

Bidder hereby agrees that if Bidder is awarded the Contract, Bidder will commence work under the Contract on the date specified in the written "Notice to Proceed" to be issued by the City and will complete the project within **Sixty (60) working days** thereafter as required by the Specifications. Bidder further agrees to pay as liquidated damages the sum of **\$2,500 for each calendar day** thereafter during which the project remains incomplete.

Contractor

Date: _____

BIDDER INFORMATION:

DATE: _____

BIDDER'S NAME, ADDRESS & PHONE

STATE CONTRACTOR'S LIC. NO. _____

CLASS OF LICENSE: _____

EXPIRATION DATE: _____

Name on license must agree with company name shown at right.

DIR Registration Number: _____

TELEPHONE: _____
(Area Code)

CITY BUSINESS TAX REGISTRATION
(if available)

IS BIDDER A CERTIFIED DBE: Y N
(Circle One)

Bidder hereby certifies that Bidder is currently the holder or will be by the date this federally-funded project is awarded, of a valid license as a Contractor in the State of California, and that the license covers, or will cover, the proposed work. When the appropriateness of a particular license is in question, Bidder understands that the determination of the State of California, Department of Consumer Affairs, Contractor's State License Board shall govern. These terms and conditions shall also apply to any subcontractors listed by Bidder.

Bidder is: (check one)

An Individual Owner _____

A Joint Venture _____

A Partnership _____

A Corporation _____

The Bidder shall be required to provide a signed copy of the following documents to the Purchasing Department prior to bid opening:

- Bid Proposal documents and any other documents required
- Original Bid Bond (Notarized) or if (Bid Security is in the form of a "Cashier's check" or "Certified check" must be delivered to the Purchasing Manager before bid due date and time).
- Non-Collusion Declaration
- Contractor Customer Service Standards Acknowledgment
- Corporation, Joint Venture, or Partnership Certificate
- All required HUD forms and any other documents called out in the specifications

Any Bidder who fails to acknowledge all addenda will be declared non-responsive and its bid will not be considered.

**Acknowledge any addenda received here:

Contractor

Date: _____

**NON-COLLUSION DECLARATION TO BE EXECUTED
BY BIDDER AND SUBMITTED WITH BID**

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid. The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative therefor, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury of the laws of the State of California that the above information is true and correct and that this declaration is executed on _____ (date) at _____ (city), _____(state).

Contractor: _____

By: _____
(Signature)

Title: _____

**CITY OF RIVERSIDE
CONTRACTOR CUSTOMER SERVICE STANDARDS
ACKNOWLEDGMENT**

Customer Service is important to the City of Riverside and has resulted in the adoption of our motto and mission statement:

**"People Serving People"
The City of Riverside will provide high quality
Municipal services in a responsive and cost-effective manner.**

The City and its Contractors shall at all times strive to represent the City in a professional, courteous, friendly, efficient, and cost-effective manner. The following customer service standards shall be enforced by Contractors:

1. Abide by the City's mission statement and customer standards as noted herein.
2. Furnish sufficient supervisory and working personnel capable of promptly accomplishing on schedule, to the satisfaction of the director / designee, all work required under the contract.
3. Have competent working supervisors on the job at all times work is being performed who are capable of communicating and discussing effectively, both in written and oral English, matters pertaining to the contract.
4. Remove from the work site any employees deemed careless, incompetent, or who generate multiple customer service complaints.
5. Have supervisors carry identification which clearly indicates to the public the name of the Contractor responsible for the project.
6. Have Contractor's vehicles assigned to the project clearly identified.
7. As applicable, with department's approval, issue a notice in business and residential areas in advance of project commencement stating work project, general time frame, company name, telephone number, job site contact person, City contact person and telephone number.
8. Endeavor to maintain good public relations at all times. Conduct work in a proper and efficient manner to create the least possible inconvenience to the general public.

Bidder shall return a signed copy of this form to the Purchasing Manager prior to bid opening.

Company Name: _____

Authorized Representative (Please Print): _____

Signature: _____ Date: _____

Contractor

Date: _____

Name of Project: _____

This is a HUD-funded project. The law requires the City to collect information on the ethnicity of all bidders and their proposed subcontractors. No Contractor will be considered for an award of the construction Contract unless the required information is supplied. For ethnicity, use the abbreviation as shown below.

| Prime Contractor | Ethnicity | Female Owned Percent | Federal I.D. Number |
|------------------|-----------|-------------------------|------------------------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

List information for subcontractors below:

W = White, B = Black, H = Hispanic, A = Asian/Pacific Island, AM = American Indian,
O = Other Minority